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## R円PORT

ON THE

## SCHOOL APPLIANCES,

 PUPILS' WORK, ETC.,EXHIBITED BY TIIE
EDUCATION DEPARTMENT OF ONTARIO. CANADA, at the

COLONIAL AND INDIAN EXHIBITION, LONDON, ENGLAN゙D. 18s6.

PUBLISHED UNDER THE DIRECTION OF THE HONORABLE THE MINISTER OF EDUCATION.

BY
S. PASSMORE MAY, M.D., C.L.H.,

Commissioner if Education at Exhibition.


EOHitata:
PRINTED BY WARWICK \& SONS, 26 AND 28 FRONT STREET WEST:. 1887.


## Education Department.

Toronto, March 1, 1887.
To the Honorable George W. Ross, LL.B :
Sir,-I have the honor to present herewith my report on the Educational Exhibits for Ontario at the Colonial and Indian Exhibition, London, 1886. It contains a condensed list of the exhibits of school appliances and pupils' work, with remarks on the fit tings and arrangement of the Educational Court of Ontario, together with newspaper notices, reviews, etc., showing the public appreciation of, and the great interest taken in, these exhibits by visitors to the Exhibition.

In addition to the description of Ontario exhibits, I have prepared an Appendix with short historical sketehes of each colony and British dependency which took part in the Exhibition, accompanied by a map so colored ns to show the British possessions throughout the world ; also a brief notice of the proposed Imperial Institute.

I may remark that about five and a-half millions of people visited the Exhibition, and the Educational Court was daily crowded from the time of opening until its closing ; and there is not the least doubt that the interests of this Province were promoted in Great Britain and on the Continent of Europe by showing the advanced position of education and science in the Institutions under your control.

I have the honor to be, Sir,
Your obedient servant,
S. P. MAY.

## INTRODUCTION.

Siace the inaliguration of the World's Fair in l851, succeeding International Exhibitions have been held for bringing together people of different hations in peave and amity, to exhibit the productions of their countries and compare with one amother the influence of industry, commerce and education on the civilized world ; but the Colonial and Indian Exhibition, in a British point of view, is still more important; it is the first imperial display on English soil, showing the resources and capabilities of the Indian Empire, together with the magnitude, vast national wealth, inclustrial activity and enterprise, and education and culture of the colomies and British possessions, which constitute Greater Britain beyond the seas.

This Exhibition is primarily due to the foresight of H. R. H. the Prince of Wales, whose earnest desire and object has leen that the series of exhibitions, held during the past few years at South Kensington, should culminate tinally in one great imperial display of the resources and industries of the Rritish ealonies and Empire of India. His Royal Highness, as Executive-President of the Royal Commission, at the first meeting of the Commissioners, held Mareh 30th, 1885 , said that the project was essentially one of a national and imperial character, differing in this respect from former exhilitions, in which the elements of trade rivalry and profit largely predominatel. It was decided that the Exhibition be held in the buildings and grounds at South Kensington, formerly used for the inventories, fisheries and other exhilitions. The governments of the different colonies were corresponded with, and as a rule they heartily co-operated with the seheme, large sums of money were voted and Executive Commissioners appointe.' 'ur each country.

General regulations were issued by the lioyal Commissioners for the gnidance of the Executive Commissioners, which gave the latter considerable power. For example, the olyjects to be exhibited were left entirely to the discretion of the Governments participating, in so far as they illustrate' the resources, products and manufactories of the country. There was no charge for space. Motive power and water were supplied free of cost. The Executive Commissioners had entire control of the arrangement of goods, but they had to provide all necessary attendance for keeping the exhibits properly cleaned and in good order, and all expenses connected with display and installation had to be paid ly the Executive Commissioners.

On the other hand the Royal Commissioners wielded great power-they received all entrance fees, they insisted that all goods should be left uncovered from $10 \mathrm{a} . \mathrm{m}$. to 10 p. m. on all days except Wednesdays and Saturdays, when the hour of closing was 11 p. m. No exhibit could be removed from the building without the permission of the Executive Commissioner, countersigned by the Seeretary of the lioyal Commissioners. No exhibit conld he photographed without permission of the Secretary of the Royal Commissioners. The Royal Commissioners reserved the right of publishing and selling a general catalogue-any special catalogues had to be sold through the othicial publishers to the Royal Commissioners. The Royal Commissioners were not responsible for any loss or damage from whatsoever cause arising.

The Exhibition was declared to be opened by Her Majesty the Queen, on Tuesday, May 4th, I886, in presence of the representatives of her subjects from every corner of the globe, and yet not every sorner, as the Canadian Gazette says, for, sad to say, one part of British North America, Newfoundland-still isoluted. though it would seem naturally intended to complete the existing confederation from Atlantic to Pacific-remained almost 1 (s.A.)
alone among British Colonies in absenting itselt from participation in the great family gathering. 'The tirst feature in the day's programme consisted of the Royal progress through the Exlibition. Her Majesty was received by H. R. H. the Prince of Wales and Royal Commissioncrs, and some of the Colonial Commissioners, amongst them Sir Charles, lopper and the Hon. Flector Fabre representing Canada; the procession passed through some of the principal courts and entered the Canadian section in the middle of the central gallery. Facing Her Majesty on her entrance was the large coat of the Royal Arins, belonging to the Education Department of Ontario, lent to the Executive Commissioners for the occasion, Immediately in front of the entrance were arranged tierd of seats for the officers of the executive staff, etc., and in addition a large number of seats were provided throughout the court for Canadian residents and exlibitors. Her Majesty was received in the Canadian Court with enthusiastic cheering, and had a gracious smile and bow for every person. The procession then took a direct route to the Albert Hall, where the inaugural ceremony was held.
H. R. H. the
H. R. H. the Prince of Wales made a final inspection of the various Courts of the dian section.

On Friday, May 21st, Her Majesty the Queen, accompanied by H.R. H. the Prince of Wales, Princess Beatrice and the Duchess of Albany, visited the Canadian section, and I had the honor of receiving them at the entrance to the Educational Court.
H. R. H. the Princess Louise and the Marquis of Lorne, as President of the Canadian Commissioners, were frequently in the Exhibition, and took the greatest interest in its progress and completion, and were ever ready to make suggestions or co-operate with Canadiais by using their influence in making these exhibits more prominent and attractive.

The English and Foreign press were unanimous in their expression of admiration of the magnitude and commercial value of the Exhibition, and some of them referred to its great importance in a moral aspect, for instance, the Times says, "At the time of the first great exhibition, five-and-thirty years ago, it could hardly have occurred to anyone that the British Empire itself could, in the next generation, be capable of furnishing from its own resources an exhibition of the products of its industry, agriculture and fine arts, by the side of which even the great exhibition of 1851 would almost have paied its ineffectual fires. But it is as the symbol of the moral unity of natural sentiments which constitutes a world-wide empire that the Exhibition appeals most strongly to every subject of the

Queen.
The Standard, after referring to the display being of immense commercial and political value, says, "The fraternity of nations, to accomplish which was the object of the Exhibition of 1851 , was a dream; the oneness of the British Empire, as shown by the present show, is a fact."

The Daily Teleyraph refers to thenscontinential railway a new link with the distant Liverpool, but has supplied in its tr
dependencies on the Pacific Ocean.
The Echo regards the Exhibition as has brought home to them before, the greatness of "hring home to the crowds, as nothing hias brom know so little; and show that if a union the Colonial Empire of which most Enghatanty, a career lies before us which may even of the whole be once placed beyond uncertai eclipse our past lustre."

The Morning Post, after reviewing the vast changes in the British age of exhibitions commenced, remarks that Indin was still unsettled. New Zealand was the object of contention between English settlers and the Maories, the criminal classes ies of Australia were still but a "dumping ground" for the dregs of constructing the netof the old country, while Canada was only commencing most distant fields withiu reach of works of railways, which now brings the produce of her the markets of Euıope.

Not only the press, bni the pcople themselves, were enthusiastic in their appreciation of the efforts of the colonists to show the world the fruits of their industry, self-reliance and indomitable perseverance. Entertainments were provided for the representatives of
the dithrent countries by royalty, nobility, steambat, railway and public eompanies, municipal corporations of varinus cities and towns, city guilds, mamfactories, private individuals, ete. It seemed, in fact, as if all classes of people throughout the country were anxious to acknowledge their blood relationship to their friends from the colonies.

It is not my province to enter into a detailed description of the various exhibits. I shall, therefore, brietly refer to the general Canadian Exhibition, and then point out the principal features of our Educational Exhihit, and tinally give a condensed summary of the educational exhibits from the different countries belonging to the British Fimpire.

The Commissionurs in London, representing the Dominion of Canada, were ns tol-

## lows:-

## Presionent.

The Marguis of Lorne, K.T., (.C.M....
Vice-Phesident.
Viscount Monck, (i.C.M.(i.

## Executive Commissioner.

The Hon. Sir Charles Jupper, C.C.M G., C.B.
Honomary Commissioners.
The members of the (iovernment of the Dominion, who were in Lombon during the Exhibition:

The Hon.' Hector Fabre, C.M.G.
The Hon. Gédéon Oumet, Superintendent of Education, Quebece.
The Hon. George Kirkpatrick.
The Hon. George W. Ross, L.L. B, Minister of Education for Ontario.
Joint Sechetaries.
Frederick J. S. Dore, Thomas Cross,

## Accountant.

O. C. Chipman.

The Dominion had over 2,000 exhibitors, and occupied nearly 100,000 square teet of space. Unfortunately this space was very nuch sub-divided, the original space awarded to Canada was inadequate for the display. of all its exhibits, consequently additional space in different parts of the bnildings had to be granted from time to time us the goods arrived. It was, therefore, impossible to classify the goods so well as could have been done had all the allotted spaces been in one place. It was, however, a grand display, a practical exemplification of the products, manufactures and education of our great country, und alihough not fitted up so showily as some of the others, it was universally acknowledged that the exhibition was thoroughly practical, and the decorations neat in design, were so arranged as to harmonise with the exhibits.

The Times' remarks, in reference to the area occupied by Canada, are as follows:-
"Had the Dominion kept aloof what a blank there would have been any one can realize who look at a plan of the Exhibition, and see how Canada is spread almost all over the building, from the gateways of British Guiana and the West lindies on the one side to the frontiers of Natal and the Cape on the other, reaching south to the confines of New Zealand and stretehing away int the North-West Territories of the arcades and the conservatory. Our American Dominion indeed, oceupies quite as much space as our Asiatic Empire, and nearly as much as all the Australian colonies put together. And rightly so, bo floubt, for has she not an area of some three million square miles, and can she not look haek upon a venerable antiquity of 300 years! Hal
she mot eities anl eatheikrals, legishatures and grat battle tielis, long before anybendy thonght of making Butany Bay even a penal settlement! The Canadians have evilently determinel that in sariety and quantity of exhibits, at least, they shatl not he exeelled, anl, on the whole, they bave sheceded. In more than one department they are not approached. In none of the courts i progress in all directions nore striking and more patent; mone of them-with, perhaps, the exeejution of lidia-have richer resourees of a solid and enduring character to show ; and, all in "dl, noms of them cen glory in more marvellons results of human industry."

I may remark, too, that Canadia was the only country which exhibited machinery in motion.

The Lareds Mercury says:-"Pushing Canala comes out bravely with agricultural proIncts, and with machinery and implements, tor, beine singular in this latter display, as the other Colonies do not show a seore of implements between them. The display, as it is, must till the ordimury visitor with astomishment, and make him proud of his birthright as a Britom. So other nation in the wond eonld make such a magniticent display of its own prompets and manufactures.'

Foreign joumals have also shown their aprere ation of the importance of the Exhibition.
 coveringmarea of $2!$ million splare miles, weop ies a prominent phate at the Exhibition. Especially in agriculture does it excel. The trophy of grain and fruits is !rombose, and one may say as much of the agrieultural implements-tools so perfeet and wo saperior to everything made in Europe, that economists are asking why its (Camalis) mannfacturers persist in sheltering themselves behind protective duties."

The: exhibition opened up considerable newspaper correspondence in regard to loreign and colonial competition. The following extruct is from an excellent letter on " buying goods abroad," by an "Englishman," published in the Daily Telegraph:
"I have to submit that England has not only to contend with foreign, but must alsw be prepared to meet Colomial eompetition. Sany of the Colonies ahready in several manufaetmes supply their own wants, some are exporting to other Colonies, whilst some, instead of receiving, are sending finished goods, and not raw material only, to the mother country. The present Exhihition at Sonth Kensington will directly tend to this result. Take the ease of Camada: it is generally admitted that the eourts allotted to the Dominion are the most practical displays in the whole Exhibition. The machinery hall is always crowded, and the ngrieultural machines, several of themin motion, attract a great deal of attention. Prolably it has surprised many to witness the degree of excellence in their manufacture attained by the Canadians. They boast, I am rold, that their machines are superior to any in the word, the American inventions not exeepted. The makers are ahays on the alert to piek up a new iden, which they adopt with no eonsideration of expense. A great need for labor-siving contrivances has stimulated their production. Here, with an agricultural popalation in excess of the demand, there has been rather a retarding influence at work, mod machines which take the bread out of the mouths of men have been slow tor alvance in the agriculturist's favon. Thens it has come about that so young ia country as Canada can now claim the leal with a miame eollection of stean threshers, self-raking reapers, hinder:, mowers, harvesters, hay-tedders, ete.

The wealth which Canada possesses in her splendid forests. has, within the hast few years particularly. considerably impored her position as a manufacturing cometry. The manfacture of dours, sashes, and blinds constitutes an industry especially prosperons in Ontario. There are speeimens on view at South Kensington, ind the prices are said to be lower than that at which the sume kind of articles con be turned out by English carpenters. We import large quantities of realy-made hows from Germany and other parts of the continent, and the question is asked by Canalians, "Why patronise the foreigner, when we can serve you better? '"

Letters were then published referring to the superiority of German goods which, they said, was owing to the practical and technical education of the German nation.

I immediately put myself in communication with some of the principal newspapers, and endeavoured to show that the improvement in our manufactures and more artistic tinish on certain classes of our goods is due to the free education of our prople. I referrel to our Mechanies' Institutes and Art Schools, also to the specimens of industrial work exhibited, and invited the public to visit the Educational Court and find out for themselves what I consider to be the strong points hy which Canada has so prominently and

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successfully shown the excellence of her manuiactures to the prople of older and morn wealthy nations.

The following extract on this sulject is from the Comerlian Giasette:
"English journals have recently taken pains to proint ont how Canulians a manufacture of certain implements, and how hard British mure Camkians are cexcelling in the competition here and eompetition there. Why is this ? Inst and the are heing pressed hy
 systems to inst il into the young mind! And cannot the of the Canadian, (Geruan, and uther shown in many branches of Candian mandernot the superiority of design and execution educational system adopted by Ontario mand other lime betributed the thoronehness of the the $\overline{5}, 30$ public and separate sehobls throush which the pors of the Dominion? In iddition to lage, to : $n$, city and township, may obtain free eduethe poorer and millle elasses in every vilthat a boy who is the son of poor parents may, education, the system of higher education is such
 ten system is in force ; while the varions wrime of the prinepal publie sehools the Kindergardrawing of mindustrial character is made compulsoryt apply directly to commercial life, and Normal and Model sehools for preparinge yomprysury. All-important, too, are the Provincial various classical schools designed to furnish a higher. Englinn for the teathing profession: the languages ; the C'niversity of Toronto, and the Univer English or classical conrse with modern practieal science, art and agriculture ; the swods for ersity College; the technieal sehools of partly aided by Govermment, such as loeal ort sehour the deaf, dumb, and blind ; the institutions logical institutions; and lastly the universities enolls, artists, meehanics, seientific, and entomotrol. These combine to form an edueational systen of nu schools not under Provincial conw!ich Ontario hats every reason to be prouil. It of no ordinary eomplereness, nud one of may learn mach in the improvement of parts of their own systems." which Europenn comutries

## Tie Edecational Colrt of Ontario.

On my arrival in England I found that it was impossible to obtain the space in the Central Court for which we had made application, but Sir Charles Tupper gave me the choice of three different spaces. I selceted an area of ayout 3,000 feet floor space in the western gallery, between the New Zealand Court and the Canadian Machinery Department. This proved to be one of the most popular and attractive sections of the whole exhibition. Agricultural implements, ete., in motion was a novelty to the English people, Who assembled in large numbers to witness the labour-saving appliances of this ceuntry. These crowds of people had to pass through the Educational Court of Ontario in order to risit the New Zealand Court, ard in addition the aquarium was adjoining. The consethousands of visitor Court was continually crowded, and the probability is that hundreds of seen them had the Edue opportunity of examining our exhibits who might not have

As the space was limited, galle been situated in some other part of the building. thousands of feet of wall space; for the prot divisions were erected which gave several number of glass cases were provided; the walls, arch apparatus, school work, ctc., a large monise with the exhibits, and the tout eusemble, archways, etc., were decorated to harBritish press and educational journals.

The following editorial from
soon after the opening ceremony, is a good clescription fothitition Supplement, published Eflucational Exhibit :-
". Ontario is justly proud of her educational system ; for it not only takes first rumk in the Domminn, hut will also bear comparison with that of many countries in the Old Worhl. That it done hy adi in the Province in evidence should be sent to Sonth Kensington of the gookl work tario Govermment were prompt to recosmise, no argmment was needed to show ; and the ghwhieh devolved upon them. The work of preparing enteavor to diseharge, the respansibility educational exhibit was undertaken with zeal and eng a thomoghly reprenentative and ereditablo by the Provincial Govemment, to the perean and energy. And, thanks to the enterprise slomon Ross, Minister of Education, and to the organizitention given to the task liy the Hom. G. W. rezult is an Edneational Conrt, which is orge of the skill and untiring industry of Dr. May, the Section, and which has already when high praise from British eduabational experts.

The Elucation Department of Ontario, now tater the direction of Mr. Russ, controls the Provineial Nommal and Model schools ; the comonty model schools ; and the pulife, separate, and high schonds ame endlegiate institntes. In addition, it has a voice in the management of ath other edheational institucions in the Province which receive Government aid for elucational purposes; such, for example, as Upper Canadia College, the School of Practical Senence, University College, Mechanics lnstitutes, Art Sehools, ete. In one or more forms all the departments of edncational ativity are represented at South Kensington. Hence it is not surprising to find that the collectiom in Dr. May's charge is extremely comprehensive, and ocerpies to the full the 3,006 feet of space neworded to it. Nor is it a matter for wonder that the special catahoge shoud form a gool sized panphlet, and shouh contan a list embacing nearly $: 3,000$ sepanate entries. Doferring detailed motice of the different divisions of the exhibit, it must suftice on the present oceasion to notice hrietly its chief features and general arrangement.

The area assigned to Ontario is in the West Gallery, between the New Kanand Comrt anel the space ocenpied by Conadinn agricultural machinery, and immediately adjoining one of the contrances to the Aquarimm. From both the New Zaland Scetion and the machinery gallery, the Ontario Court is separated by artistically designed and decorated arehways, which admirably serve the purpose of sereens. Above the 1 mineipal archway-that on the north-the visitor notices at once a large coat of the Royal arms, said, indeed, to be the largest ever exhibited. This is the work of a Torontonian, and was lent from the Educational Court to Sir Charles Tupper, to be placed facing Her Majesty upon her entrinnce to the Camadian Court on the opening day. Abowe is a bust of the Marguis of Lorne. On one side of the arehway is placel a large photograph of the graduating class of the Ontario Veterinary Collego, eontaining some 85 photographs of the students, together with Pro sident Smith and the professors. These striking photogriphs, which attracted the attention of, and were mach admired by, the Queen and the Prince of Wales, are supplemented by viows of the students' dissecting-room, etc. On the opposite side of the archay, the commercial colleges of the provinces are well represented by specimens of penmanship from Hamilton, Broek ville, Owen Sound, ete.

Unon enicring the Court, the first thing to strike the cye is the prominently displayed motto, 'Edncathon the (ilory of Canada'; whilst on both arehes, in equally distinet lettering, are the signs, 'Educational Court, Ontario, Canada.' The rafters supporting the rof are deeorated with the maple leaf ; mad the southern arehway, or sereen, it showid further be mentioned, is decked with shiells of Ontario, surmomed with crowns and ormmented with thas. The Court is divided iuto tive compartments on cither side, with galleries above, approached by spiral staircases. Only in this way conk Dr. May make separate divisions for each lnstitution and find space for the very numerons specimens of all kinds committed to his care; and the general effeet of his arraugements is an appearance of completeness and method which is not to be noticed in any other portion of the Canadian Section.
'The place of honor in the centre of the Court is rightly assigned to the Educational Trophy. This consists of twelve statistical charts, representing the educational institutions under the control of the Education Department, and momnted on a 12 -facel prism. Above the charts, which are quite 6 feet high by 4 feet wide, are pliced photographs of the institutions; and the prism itsolf is sumomed by a globe 36 inches in diameter, specially colored to show at a glance the extensive territory of Canada. The remainder of the centre of the court is filled with large glass easces, containing philosophien! apparatus as used in the Publicand High Schools of the Provace, inchuling a eollection of School Apparatus manufactured by the Map and Sehool Supply Company, Toronto. At the extreme end of the Court are shown astronomical and geographical ghobes, with phane and raised surfaces, among which we specially notice the Newtonian or Astronomical (ibobe exhihited by Selby \& Co. The anatomical and physiological models also, on view here smem to be one of the attractions of the Court, especially the manikin repicting loth the external and internal structure of the human body.

The partitions of the side compartments of the Court are surmomited by pedestals support ing busts of tistnguished Canadians. Thas the Hom. G. Mowat faces Sir John Maedonald; the Hon (ico. Brown has the Ifon. J. Beverley Rohinson as lis ris-a-cis; the Ror. Dr. Ryerson is "ple" ite to to Sir Francis Ilineks ; and the Lhom. Alam Crooks to Bishop Strachan. As to the contents of the compartments on cither side space only permits a few worls now being said. Abont one-half of these contain Maps and Apparatus, the new series of Drawing Books, Toxt Books, Tablet Reading Lessons, and other school appliances; the remainder being filled with illustrations of Industrial Art. This display does intinite credit to the province and to the efforts of the Government to promote this branch of stuly, and is calculated even to a greater degree than the Art Exhibit in the Albert Hall to open the eyes of the British publie to Canada's artistic progreas of recent yoars. The Ontario School of Art, the Westem Sohool of Art, Lomelom, and the Ottawa and the Kingston Art Sehools send speeimens of every elass of work-in vil and wator-colors, in frechand drawing, industrial designs, architectural and machine drawing, shading from the llat and from the antique, reponssé work, chasing in brass, modelling in clay and plaster easts from chy, electro-metallurgy, and carving in wood. Detailed references, as we
controls the eparite, and of all othe al purpuses ; sity College, educational at the eollec,000 feet of form a groul beferring occasion to

Court and : one of the ery gallery, h admirably -the visitor 1 exhibiterl. tharles Tupthe opening laee:l a largo ne 85 photo--iking photoat the Prinee ppusite sitle precimens of
layed motto. 'ing, are the eorated with d, is deeked The Court is spiral staidion and find ;eneral effect e noticed in onal Trophy. meler the conharis, which sil the prism a glanee the th large glass he Provance, Supily Comgeographieal lian or Astro. also on view ing both the
stals sujprortclonadd ; the - Ryerson is As to the r being said. 13ooks, Text g tilled with to the etforts reater legree anala's artisirt, Lemidon, $k$-in oil and rawing, shadin elay nud ences, as we
have said above, are out of the question on the present vecasion. Wut mention must be marle of the high opinion expressed by competent authorities of the profluctions in indusirial art of the interest aronsed by the speeimens of Examination work in the Elementary subjects, such as Geometry, Perspeetive and Model Drawing, of the admirable water-colors and piniting on ehinit, exceuted by the students of the Lomion School of Art ; and of the excellent general work slawn from Toronto, Kingston, and Ottawi.

Various other exhibits in this portion of the Conrt eall for briet notice. An educational nalp of 0 Ontario, on a rather large scale, has both usefulnoss and novelty torecommend it. Specially marked to show the number of schools of all kinds and other educational institutions in each county, it conveys at a glanee an amount of information which could not be fully grisped in any other way with the same ease. Messrs. Willians and Son, of Toronto, show a school phano and urgan, which have deservedly gained the attention of many edueationists. The public sehoul cabinet organ in particular so almirably meets 'a loug felt want,' that its introduction into this country would be hailer with mucli satisfaction ; for this instrument, while sufficiently powerful for outdoor use, or for any ordinary sehool-room, is so light that it can be carried fromi roum to room by it child ten years of age, and is sold at an extremely low price. Again, the Kindergarten furniture and materials exhibited are of more than ordinary merit, and the ordininy school fnmiture shown by several makers has already been made the subject of inquiry by many English scholastic authorities. Visitors of all kinds display interest in the specimens of phonotypy sent by Mr. Simpson, of Leamington ; in th , v series of reading lessums recently introdueed; and in the numerous photographic views of t.a , ublic schools, high schools, eolleges, and aniversities, Toronto Sehool of Medicine, Ontario Pharmacentical College, etc. The last named, it should be stated, are nll labelled, so as to show plainly the name of the institution and of the city or town in which it is situated. The remarks by visiturs upon these plotographs, which are agitin and again overheard, testify to the surprise felt at the beanty, size, and number of the buildings the public spirit and wiso enterprise of Untario have provided for educational purposes.

Proceeding now to the galleries, art is prominent on the walls of the right gallery. Here the contributions eome from the Ladies' Colleges, at Woolstock, Hamilton, Whinhy, Brantford, and St. Thomas, and are as varied as they are excellent in character. The Loretto I bbey, To ronto, and the Loretto Convent, Hamilton, are also exhibitors, and notably furnish some embroidery, lace-work, and painting on velvet and ehina, whose beauty, hoth of design and excention, is unquestionablo. But the professional educationist will dwell speeially upon the worlfrom tho pablic selools of Toronto and other cities and towns, villages and rural sehools, which is exhibited kere. As Dr. May points ont in his most useful and well-arranged eatalogut, the very large number of specimens shown represent the ordinary work dome by pupils from seven to fourteen years of age, as lollows:-Writing, speeimens of general work of 416,588 piupils ; arithmet jocimens of general work of 422,07 (i pupils ; and geography and map drawing of 280,953 pupils. The drawings have been taken from the work in progress in the sohools in the middle of the term, and are conseguently scareely a fair example of the improvement which can be made in a full session. Nevertheless, the work done in map trawing, for example, is in nany cases of astonishing exeellence when the age of the pupi] is considered. Especially intertesting, too, is the whittling in wood by little children, of which many specimens are shown, from Toronto publie Schools, ineluding articles of domestie use, such as knives and forks. And this gallery eannot be left withont eommending the Kindergarten work in eonnection with the Moplel School of Toronto, and the Toronto Public Sehools.

In the opposite gillery fitting space has boen found for specinens of pupils' worl, teaching appliances, photographs, etc, from the Ontario lnstitutions lor the Blind and for the Deaf and Dumb. These are in many ways of exteptional interest. The Agricultural College at diuelph is also strongly reprosonted with very largo eollections of geological, minoralogical, and hotanical speeimens. samples of seeds and anatomieal models, statistical eliarts, ete., all of whirl demonstrate the thoroughly praetical und seientific training athorled to the students. The Iustitut l'mumhon sends from Ottawa a variety of specimens of work in the diflerent branches of art. IBut art here is principally illastrated by the specimens of Industrial Drawing done in the Ilechanies' Institutes in the province, of which thero is an extremely interesting display, (One or two novelties in this division have in addition to bo numed, to wit, the model of a dram of timber as preparel for ruming the St, Lawrence rmpids, and exhilited by Mr. Antlomy Malone, of Garden Island ; tho working model of an Enerlish loconotive, ly Mr. Lacey R. Jolnson, of Carleton l'ace, and a marvellous piece of work by Mr. A. larker (also of Carleton), consisting of a small omanental inlaid talle, tifteon inches in diameter, eomposed of 1,100 separate pieces of wood.

Brief as is the foregoing ontline of Ontario's Edueational Exhihit, enough has beon said to indicate its exceptional merit and ralue. mul to prove that the loblil motto, 'Edneation the Ghory of Cunada, is-in the premid' province at least-fully justified by the work dome in the past, and by the promise held ont for the future. Having pht thoir hand to tho plough in this matter, Canadians are not likely to tirn back. And thoy are to be eonuratulaterl mpon the circumstance that the enterprise of the Ontario fovermment, and the suceess with whieh thoir Commissioner
at South Kensington has discharged his duties, have enabled the British public to grasp these facts more cl arly and fully than was ever possible before."

As soon as the work of installation was completed; a list of the exhibits was put in the hands of the printer, and a catalogue of 76 pages, containing nearly 3,000 separate . exhibits, was published. The numbers on the catalogue corresponded with the numbers on the labels attached to the exhibits. Five thousand catalogues were distributed. In addition to the Educational Catalogue, the Canadian Catalogue contains a list of our exhioits, which occupied 25 pages. The Official Catalogue also devoted several columns to our exhibits.

The following is a copy of the lidncational Catalogue in a condensed form :-

## CATALOGUE. <br> -

The Education Department of Ontario, under the direction of the Hon. Geo. W. Ross, LL.B., M.P.P., Minister of Education, controls the Provincial, Normal, and Model Schools; County Model Schools; Public, Separate and High Schools, and Collegiate Institutes ; also, Upper Canada College, School of Practical Science, University College, Toronto University, Educational Museum, and Art S'chools, Mechanies' Institutes, and all other Institutions receiving (iovernment aid for Educational purposes in the l'rovince of Ontario.

## PART I.

NORMAL AND MODEL SCHOOLS, PUBLIC AND HIGH SOHOOLS, AND COLLEGIATE INSTITUTES.

Class 1.-Mistorical and Statistical.
Annual Reports of the Normal and Model, High and Public Schools of Ontario, from 1845 to 1885.
Spreial Educational Reports, 1868 to 1876.
Journal of Elucation for Ontario, from 1848 to 1877.
Statutes and Regulations respecting Public and High Schools, 188\%.
Revised Statutes of Ontario, 2 vols.
Untario Educational Exhibit at Philadelphia in 1876 , by J. G. Hodgins, LL. D., DeputyMinister.
Catalogue of the Museum of the Education Department of Ontario, by S. P. May, M.I., Superintendent.
Educational Trophy, conssting of 12 Statistical Charts, each 6 feet by 4 feet, with large Photographs of Buildings mounted on a 12 -faced prism, surmounted by a cylinder, supporting a 36 -inch Globe so colored as to show the extensive territory of Canada.
The Charts are as follow :-
l'rogress of the Public Schools of Ontario in forty years.
Progress of the Collegiate Institutes and High Schools in twenty-five years.
Statistics for 1886 of County Model Schools, Training Institutes, and 'Teachers' Institutes.
Statistics for 1886 of the Ontario School of Art, Education Department, Toronto. Statistics for 1886 of the Mechanics' Institutes and Free Public Libraries in Ontario. Statistics for 1886 of University College and the University of Toronto.
Statistics for 1886 of the School of Practical Science, Toronto.
Statistics of Upper Canada College, Toronto.
Statistics of Ontario Agricultural College, Guelph.
Statistics of Ontario Institution for the Education of the Blind, Brantford.
Statistics of Ontario Institute for the Deaf and Dumb, Belleville.

Map of the Province of Ontario, showing the Public Schools, Separate Schools, High Schools, Collegiate Institutes, Universities and Colleges.

G'rip Publishing Company, Toronto.
Education Weekly, from July to December, 1885.

Class 2.-School Method and Orfinization.
Public School Daily Register for recording the Attendance of Pupils.
Register of Daily Attendance, etc., in High Schools and Collegiate Institutes. Honor Rolls for High and Public Schools.
Examination Papers for Provincial Certificates, Entrance Examinations, etc.
Text Books on the History and Science of Education.
Manual of Hygiene for Schools and Colleges, Education Department, Toronto.
scripture Readings for High and Public Schools, authorized by the Educa tion Departnent.

Class 3.-Sciool Arcintecture and Pilotograpis of School Bulldiafis.
Hints and Suggestions on School Architecture and Hygiene, with 75 Plans and Illustrations, for the use of School Trustees in Ontario, prepared under the direction of the IIon. the Minister of Education, by J. Ceo. Modgins, LL.D., Deputy-Minister:
ihotoyraphs of Schools, Colleges, etc.
Normal and Morlel Schools:-
Normal und Moclel Schools, Toronto.
Do. do. Ottawa.
Public Schools:-
Brantford-Central School, East Ward School, North Ward School, King's Ward
School.
Goderich-Central School, Public School.
Hamilton-Public School, Ward Public School.
Ingersoll-Central School.
London-C'entral School, Hamilton Road School, Princess Avenue School, Rectoty Street School.
Morrishurg-Public School.
Napanee-Public School.
Ottawa-Central School, Central Public School (East), Victoria Ward Primary School
Peterborough-Roman Catholic Separate School for Boys.
Toronto-Ryerson Strect School, Wellesley Street School, Dufferin Street School, Hope Street School, .Victoria Strect School, Jesse Kctchum School, Bolton, Woodstock-Centrul Public School.

Indian Schools :-
Sault Ste. Marie-Shingwauk Hove for Indian Boys. Do. Wananosh Home for Indian Girls.

Union High and Public Schools:-
Belleville, Port Perry.

## High Schools:-

Golerich, Morrisburg, Stratford, Woodstoek.
Collegiate Institutes:-
Brantforl, Guelph, Ingersoll, Ottawa, Peterborough, St. Catharines, Toronto.

Class 4.-School Furniture and Fittings.
Beunet Furuishin! Company, London.
Style A Bemnet Desk and Seat, 3 sizes; Style B Bennet Desk and Seat, 3 sizes; Bernet Grammar School Locked Desk.

> W. stahlschmidt, Preston.
'Teacher's Desk, Marvel School Desk; Single Rear Seat for same; Marvel School Desk, 4 sizes; Model Sohool Desk, Improved Favorite School 1)esk.

> Map and School Supply Company, Toronto.
(See also Map and Apparatus Departmeats.)
Numeral Frame, with Blaekboard; Numeral Frame on Stand; Sheepskin Eraser for Blackboard ; Fluted Erascr for Blackboard.

> Class 5-Kindergarten Material. Selby of Co., Toronto.
(See also Drawing Models.)
Kindergarten Tables, with tops marked in inch squares ; Kindergarten Chairs, ( 6
Chairs colored to represent the primary colors) ; Kindergarten Toys, ete,

## Class 6.-Pifysical Education.

Maclaren's Physical Education.
(iynmasium, with the necessary Apparatus to perform the Gymnastic Exereises in Movements and Positions, Exereises of Progression, ete., Dumb Bells, Indian Clubs.

## Class 7.--Tevt-Books.

Authorized for nse in Publie Schools in following Subjects (for list see Special Catalogue) :-
Reading and English Literature, 8 vols.; Book-keeping, 2 vols.; Arithmetic, 4 vols.; Geography, $\boldsymbol{i}$ vols.; Grammar and Composition, 7 vols.; History, 4 vols.; Alg.lna, i vols.; Gēometry, 3 vols.; Chemistry and Agriculture, ${ }_{2}$ vols.; Natumal

Text-
Eaglis

Readin
C'alkin'

Set of

Philosophy, 4 vol.; Elementary Physics, 3 vols.; Agriculture, 1 vol.; Music, 1
vols.; Drawing, 5 vols.
Copp, Clark \& Co., Toronto.
Readers authorized by the Minister of Education.
First Book mounted on cards.
Reading Lessons to acer pany
Mercantile Graded Copy Books.

> Canaila. School Publishing Company, Toronto.

Coleridge's "Ancient Mariner" and selected Minor Poems.
Ayres' and Armstrong's Verbalist.
Ayres' and Armstrong's Orthoëpist.
Swinton's Language Lessons.
Williams' Composition and Practical English.
Jeffers' History of Canada.
Thompson's History of England.
Collier's History of British Empir?
Morrison's Trigonometry.
Roval Canadian Readers.
Beatty's Ontario Writing Course.
Tuft's and Preston's Public and High School Music Readers.
Canadian Drawing Course, 5 books.
Set of Charts for Drawing Books.
Set of Drawing Books mounted in frames.

> Warwick \& Sons, Toronto.

Physical Culture, by E. B. Houghton. ${ }^{\text {S }}$
School Management, bÿ Baldwin and Dawson.
Euglish Literature for "High Schools.
Text-Books authorized for use in High Schools and Collegiate Institutes in following sub jects (for list see Special Catalogue) :-
Euglish, 14 vols.; Latin, 8 vols.; Greek, 7 vols. : Frencl, 11 vols. ; German, 4 vols.; Mathematics, 18 vols.; History, Geography and Anticuities, 17 vols. ; Physical
Science, 17 vols.; Miscellaneous 10 vols.

Copp, Clark \& Co., Toronto.
Reading Lessons to accompany authorized series of Reading Books.
Calkin's Phonetic Charts for Self-Training in the Sounds of Language.
Caleb P. Simpson, Leamingron.
Set of 11 Tabulated Phonetic Alphabet Charts.

Class 9.-Diawing Mobels, dc.
Sct of Drawing Models. (Department of Science and Art.) Sist of Geometrical Drawing Models.
Model of Bridge, Door and Steps, Step-Ladder, Gate, Well, House, ete.
Models of Fruit, beautifully colored from nature.
Terra-cotta Models of Fruit, Leaves, ete.
Lail's Drawing Charts (set of 19.)

> Selly \& Co., Toronto.
(See School Furniture.)
Primary Drawing Models, Canadian Drawing Models, Geometrical Figures.

Class 10.-Music.
R. S. Williams \& Son, Toronto.

Public School Cabinet Organ, solid black walnut case, three and quanter octaves, having one set of reeds thoroughout, witk double bellows, two blowing pedals and knee swell.
This instrument is sufficiently powerful for out-door exercises, or for any ordinary schoolroom, and is so light that it can be carried from room to room by a child ten years of age.
Public and High School Piano, walnut oil finished case.

## Canada School I'ublishing Compan!, T'oronto.

(See also Text-Books and Drawing.)
Tuft's and Preston's Public School Music Reader.
Tuft's and Preston's High School Music Reader.
Normal Music Course, first series ( 20 large charts printed on both sides.)

Class 11.-Geograpiy and Astronomy.

T'opogranhical Illustrations-Terrestrial Globes :30 -inch Terrestrial Globe.
18 -ineh do bronze pedestal stand.
12 -inch do bronze frame. 6 -inch do brass frame. 5.inch Terrestrial Hemisphere Globe. 3-inch do do.

Maps, etc:-
Johnston's England, Ireland, Scotland, British 1sles and Australia.
Nelson's British America, Palestine and Lands of the Bible.
Departmental Maps of Palestine and Bible Lands.
Raised Maps:-
North America.
Map of Europe.

Raised and Physical Globes:-12-inch Physical Glohe. 15-inch Raised Glohe. 18-inch do

Map and School Supply Company, Toronto.
School Maps (see also Apparatus and School Furniture Departments)- Eיnrope, Asia, Africa, America, Dominion of Canada and Ontario. Map Case containing 5 Maps.

Canada S'chool P'ublishing Compeny, Toronto.
Hughes' Railway Map of Ontario.
Astronomicul Illustrations-Celestial Glohes, Orreries, etc :-

18-inch Celestial Globe.
12-inch Celestial Globe. Solar Telluric Globe. Juvet's Time Globe. Ginn's 6-inch Astronomical Globe. Swain's Planetarium. Planetarium High Stand.

Planetarium Low Stand.
Brass-ground Tellurian.
The Heliotellus.
The Lunatellus.
Tide Dial.
Bailey's Astral Lantern. Astronomical Lantern.

Selby d. Co., Toronto.
Newtonian or Astronomical Globe.
Astronomical and Physical Mups and Charts:-
Johnston's Solar System.
do Astronon ical Diagıams.
Astronomical Charts (set of 16.)
Drew's Astronomical Charts (set of 12.)

Reynolds' Astronomical (icography.
do Chart, Distribution of liain.
do Principal Rivers of the World. Guizot's Mural Map of North America.
octaves, ring pedals
y ordinary 1 ten years

## Class 12.-Ciuronologi.

U'hronological Chart of Ancient History.
Genealogical and Chronological Chart of the History of England.
Gencalogical Chart of the Sovereigns of England, showing their respective titles to the Crown.
Historical Chart, showing the rise, progress, and decline of Commercial Nations,
1506 J. C. to A. D. 1870.
Merritt's Historic Tree of British North America.
Nasmith's Chronometrical Chart of the History of England.
Genealogical Tree or the Royal Family of Great Britain.

Class 13.-Etinograpiuy.
Portrait Busts of Distinguished Canadians (from the Educational Muscum) :Marquis of Lorne, Governor-General of Canada from 1878 to 1882,
His IIonor John Beverley Robinson, Lieutenant-Governor of Ontario, born $18: 0$.
Right Hon. Sir John A. Macdonald, G.C.B., Premier of Dominion of Canada, born

## 1815.

Hon. Oliver Mowat, Q.C., Premier of Ontario, horn 1820.
Hon. George Brown, Senator, born 1818, died 1850.
Sir Francis Hincks, K.C.M.G., born 1807, died 1885.
Hon. T. D'Arey McGee, M.P., born 1825, died 1868.

Rev. Egerton Ryerson, D.D., L.L.D., Ohief Superintendent of Education, horn 1803, died 1880.
Hon. Adam Crooks, first Minister of Education for Ontario, born 1827, died 1886.
Right Reverend John Strachan, D.D., L.L.D., first Bishop of Toronto, born 1778, died 1867.
I'ortraits of Indians (set of 58, colored.)

Class 14.-Anatomy and Physiology.
Models :-
Manikin-a model of the Human Body, showing both external and internal structure.
Thorax, showing organs of circulation, respiration, etc.
Head and Neck (3 models).
Brain (4 models).
Ear, enlarged, showing its structure.
Lower Jaw, enlarged, showing teeth, nerves, arteries, etc.
Skin, enlarged, showing epidermis, perspiratory glands, arteries, nerves, etc.
Heart, enlarged and movable, showing valves, etc.
Tongue and Epiglottis.
Larynx (2 models).
Bones of Foot, Hand, Elbow Joint- Shoulder Joint, Knee Joint, and Hip loint.
Anatomical and Physiological Charts :--
Fiedler's Anatomical Charts (set of 4).
Marshall's Plysiological I)iagrams (set of 9).
Johnston's Anatomical and Plysiological Charts (set of 2).

## Class 15.-Kooloriy.

A"dubon's Animals of North America (chiefly of the natural size) beautifully colored from nature, with common and technical names.

Zoological Diagrams:-
Patterson's Zoological Diagrams (set of 10).
Johnston's Illustrations of Natural History (set of 5).
Redtield's General View of the Animal Kingdom.
Simonson's Circular Zoological Chart.
Hawkins' Extinct Animals (se¿ of 5).
Christian Knowledge Society, Comparative sizes of Animals.
Normal and Model Schools, Ottawa.
Collection of Corals.

## Class 16.-Botany.

## Botanical Charts:-

Henslow's Botanical Charts.
1)epartmental Set of Botanical Plates.

Johnston's Botanical Charts.
Vegetable Kingdom - Flowering piants or Phanercgamia, and Flowerless Plants or Cryptogamia (set of 70).
Apparatus for Collecting Plants.
Set of 45 Colorea Botanical Plates to illustrate Order Orchidacere.
tion, born

Set of 28 Models of Flowers, which can be taken apart to illustrate Physiological
Botany Set of 90 Object Lessons from Vegetable Kingdom.

Class 17.-Geolomiy and Mixemabor.
Geoloyical Churts:-
Reynolds' Table, showing the order of succession of Stratified Rocks.
Reynolds' Table of British Strata.
Morris's Geological Chart.
Set of Models of Crystals in glass.
Set of Models of Crystals exemplifying the primary forms.

Class 18.-Pililosopinical Cifarts.
Johnston's Philosophical Charts (set of 7).

Class 19.--Physical and Cuemical Apparatus.
Matter, Force, and Motion:-
Mercury Tube and Cup for Porosity.
Inertia Apparatus.
Apparatus for illustrating Curvilinear Motion, Bent Lever.
Double Inclined Plane. Collision Balls.

Model of Serew. Model of Lock. Gyroseope. Centrifugal Machine. Sct of Mechanical Powers.

## Gravitation and Molecular Attraction :-

Centre of Gravity Apparatus.
Physieal and Chemical Balance, in glass case.

## Hydrostatics:-

Haldat's Liquid Pressure Apparatus.
Equilibrium Tubes.
Capillary Tubes.
Apparatus to illustrate Spouting of Fluids.
Hydraulic Ram.
Hydraulic Press with lever.
Properties of Gases :-
Air Pump with two glass cylinders, syphon gauge, and bell glass receiver, mounted on a table.
Air Pump with brass cylinder.
Condensing Syringe.
Copper Globe for Exhaustion to form Fountain.
Model of Suction or Lifting Pump.
Model of Force Pump.
Magic Funnel.
Transfer Jar for Exhaustion under Bel: "ass.
Fountain in Vacuo, with Jet, etc., for - acing an Artifieis. : Countain.
Magdeburg Hemispheres.
Guinea and Feather Apparatus.
Coulombs Tọsion Balance.

Bramal Press.
Cartesian Divers.
Hydrometers.
Specific Gravity Flasks.
Model of Arehimedes Pump.
Under and Overshot Wheel.

Daniell's Hygrometer.
Reynolds' Chart of Barometer.
Marriotte and Boyle's Instrument for Measurement of the Elastic Forees of Gases.
Apparatus for Mixture of Gases and Liquids.
Acoustics:-
Bell in Glass Globe to show that sounds are not produced in vacuo.
Sliding Rod and Ball, with Glass Receiver.
Water Hammer.
Meat : (see also Chemical Apparatus) :-
Tyndall's Apparatus-IIultiplying Wheel.
Ingeuhouz's Apparatus.
Tyndall's Apparatus to show Unequal Expansion of Metals.
Gravesande's Ball and Ring Pyrometer.
Ferguson's Pyrometer.
Wollaston's Cryophorus.
Differentia! 'hermometer.
Gridiron Pendulum.
Franklin's Experiment (Pulse Glass).
Radiometer.
Psychrometer (Wet Bulb Thermometer).
Thermo-electric Battiry or Pile.
Mellom's Thermo Multiplier with concave reflector.
Concave Reflectors.
Morlel of Locomotive Engine.
Model of Beam Engine and Boiler.
Miniature Working Model of Steam Engine.
light:-
Large Binocular Microseop with movable dinphragm, fine aijustment, two sets of eye-pieces, nine objectives, achromatic comienser, rotating prism, et c., etc.
Public School Microscope for Botanical purposes.
Magic Lantern with $3 \frac{1}{2}$-in. lenses.
Polarising Apparatus for Magic Lantern.
Solar Lantern.
Photogenic Lanteru for Electric Light Apparatus.
Condensing Lenses.
Terrestrinl Telescope on Stand.
Davey's Safety Lamp.
Revolving Disc for Decomposition of Light.
Camera Obscura.
Kaleidoscope.
Oxy-hydrogen Lamp.

## Magnetism:-

Inclination Compass for Measuring the Magnetic Inclination or Drop.
Horse-shoe Magnets.

## Frictional Electricity:-

Carre's Electrical Machine.
Plate Electrical Machine.
Holtz's Electrical Machine.
Electrophorus, glass handle.
Electric Battery of Leyden Jars.
Electrical Discharger, Electrical Plate, Electrical Orrery, Electrical Sportsman, Electric Egg, Electrical Vane, Electric Head of Hair, Electric Pistol.

Cuthbertson's Balance Electrometer.
Dancing lmage Plates.
Glass Globe for Dancing Images. Coulomb's Eillipsoid (see Heat).
Apparatus for Light in Vacuo.
Illuminated Egg Stand.
Dynamical Electricit!!:-
Bunsen's Battery.
Carbon Battery.
Grove's Battery.
Smee's Battery.
Decomposition of Water Apparatus.
Electric Magnetic Bell.
Electric Pump.
Electro-magnetic Machine.
Electrotyping Apparatus.
Geissler's 'Tubes.

Globe for Electric Spark. Diamond or Luminous Jars. Leyden Jars. Spiral or Spotted Tubes.
Harris's Unit Jar.
Thunder House.

Helix and Bar.
Large Ruhmkort' Coil.
Commutator or Contact Breaker for ditto.
Ruhmkorff Coil with commutator.
Oersted's Galvanometer.
Stand for Carbon Points for Electric Light.
Revolving Electro Magnet.
Revolving Armature and Magnet.
Model of Electric Telegraph with index.
Model of Electric Telegraph for Sound.
Apparatus for revolvingGeissler's Tubes. Home and School Telegraph.
Mirror for Geissler's l'nles. Telegraph with Paper Reel.
Hoffman's Apparatus for Electrolysis. Mariner's Compass.
Chemistry:-
School Laboratory.
Apparatus for applying Heat.
Apparatus for Experiments with Cases. Miscellaneons Chemical Apparatus.
Map and School Supply Compamy, Toronto. (Sce also School Furniture and Map Departments.)
Public School Air l'ump.
Bell Glass for ditto.
Air Pump with 6 -inch plate.
Bell Glass for ditto.
Guinea and Feather Apparatus.
Magdeburg Hemispheres.
Model of Lifting Pump.
Mociel of Force Pump.
Ramsden's Electrical Machine.
Leyden Jurs.
Spiral or Spangled Tubes.

Electrical Discharger.
Dancing Image Plates.
Electrical Flier.
Electrical Pendulum.
Insulating Stool.
Electrolysis Apparatus.
Induction Cylinders.
Gyroscope.
Archimerles Principle.
Conductometer.
Ball and Ring Pyrometer.

Class 20-Pupils' Work-Kindergarten.
Pupils' Work.-Provincial Model School, Toronto. Conducted by Miss Hailman.
Beads (Miss Hailman's 2nd gift) :-Examples to show Color, Form, Color and Form.
Chains:-Examples in Straws, Papers and Links.
Stick-laying :-Examples of same.
Parquetrie :-Examples of Tablet-laying.
Fulding-Forms of Cognition :-Examples of Square Folding (lst School); Oblong Folding (2nd School) ; Triangular Folding (3rd School); Geometrical Folding; Groups of Geometrical Folding.
Weaving Mats :-Examples to illustrate Color, Form, Color and Form.
First Steps in Invention (Miss Hailman's Baby Mats.)
Cuttiny und Pusting:-Simple School, founded on square inches.
Sewing. Hite of Bradley's Sewing Cards.
Freehand Wreuting - Examples of Cards and laskets.
Interlicing:- Lixamples of Interlacing,
Lindergarten Work, T'oronto I'ublic Schools.
I. Exhibit of Training Class, conducted by Mrs. James L. Hughes.
Paper Cutting and Pasting-(a) Designs from the Square
sресінин ..... $\because 1$
(b) " " Hexagon ..... $\because$
Firet Cutting
Firet Cutting
Mat Wraving-(a) Regular Weaving ..... 40
(b) Original Symmetrical Patterns ..... !
(c) Woven Pictures ..... 9
Sewing-(a) Picture Sewing ..... 9
(b) Symmetrical Designs ..... 9 ..... 9
Paper Foiding-One-inch square Foldings, grouped to form a Tea Set. Paper Interlacing. ..... 20
Perforating-Emilosst d lesigns ..... $1 ;$
11 Children's Work.
Mat Weaving-(a) Counting Patterns ..... 24
(b) Form Datterns ..... 12
Free Weaving ..... 20
Paper Folding ..... 21
Sewing-Picture Cards ..... 30
Perforating-(a) Picture Outlines ..... 20
(b) Symmetrical Designs ..... 9 ..... 9

Class 21.-Pupils' Work-Public and Separate Schools.
(Number of Schools in operation, $5,316$. )
This section of the Catalogue represents the ordinary work done by children from i to 14 years of age in the following departments:-

Writing: Specimens of general work of 416,588 pupils.

| Arithmetic : " |  |  |
| :--- | :--- | :--- |
| Geography : | Map Drawing of 280,053 | " |

Map Drawing is taught simultaneously with the Text-Books in Geograpioy,
Drawing: Specimens of Drawing-Books and Drawings, general work of : 45,521 pupils.

The names of Schools only are given ; for details see Special Catalogue.

## I.-Counties.

| Brant Co. (Putils <br> Mourv - : sant |  |
| :---: | :---: |
| Carletor | Co. (Pupils' ', ath) |
| S.S. | 2 Gollbom |
| s.S. | 4 Goulb |
| s.s. | 4 Gower, N . |
| ss. | 5 Huntley. |
| S. | 3 Nepean. |
| S.S | 4 Nepean |

Dunias Co. (Pupils' Work).
S.S. 1 Inkermai
S.S. 7 Mountain.
S.S. 18 Mountain.
S.S.
4
S.S. 9 Williamsburg.
S.S. 12 Williamsburg.
S.S. 22 Williamsburg.

## I.-Ci revies.-C'ul linurd,

Dundex Co. (Pupils' Work).
s.s. 1 Winchester.
S.S. 2 Winchester.
S.S. 4 Winehester.

Durluem C'o. (Pupils' Work).
s.S. - Cavan.

E'ssex C'o. (Pupils' Work).
※.s. 2 Colehester, N.
S.S. 2 Colehester, S.
S.S. 4 Gostield.
S.S. 2 Malden.

Fronteruc Co. (Pupils' Work). S.S. 7 Portland.

IIultou Co. (Pupils' Work). S.S. 6 Esquesing. S.S. 10 Esquesing. S.S. 11 lisquesing.
S.S. - Nassagaweya.
S.S. 6 Nelson.
S.S. 12 Nelson.
S.S. 5 Trafalgar.
S.S. 10 and 18 Trafalgar.
S.S. 11 Trafalgar.
S.S. 14 Trafalgar.

Hakimured ('o. (I'upils' Work).
s.s. 6 Caledonia.
S.S. 2 Canboro'.
S.S. 5 Cayuga, S. Decewsville.
S.S. 2 Dunn.
S.S. 4 Dunn.

Hagarsville.
S.S. 2 Moulton.
S.S. 6 Seneca. Springvale.
S.S. 1 Walpole.
S.S. 6 Walpole.
S.S. 16 Walpole. York.
Hastinys ('o. (Pupils' Work). Plainfield.
S.S. 6 Sidney.
S.S. 11 Thurlow.

Huron Co. (Pupils' Work). Blyth.
hent C'o. (Pupils' Work).
S.S. 2 Chatham
S.S. 7 Chatham.
S.S. 12 Chathmm.
S.S. 2 Dover.
S.S. 13 Dover.

SS. 7 Raleigh.
S.S. 9 Raleigh.
S.S. 1 Romney.
S.S. 3 Romney, N.

Eent Co. (Pupils' Work).
S.S. $\because$ Tilbury, E.
S.S. + Tilbury, E:

Letmbton Co. (Pupils' Work).
S.S. 2 Euphemia.
S.S. „ Warwick.

Lamark Co. (Pupils' Work). Fullbrook.
Lereds (Pupils' Work).
Delta.
Fart, ersville.
Lrmonor anel Addington Cos.
(Pupils' W'ork).
Big Creek.
S.S. 3 Oanden.
S.S. 6 Camden.
S.S. 4 Eruestown
S.S. 6 Ernestown Hambirg. Millhaven.
Morven.
Napanee Mil! :
Odessa.
Lincoln C'o. (Pupils' Work).
S.S. 7 Caistor.
S.S. 2 Gainsboro'.
S.S. 10 (iainsboro'.
S.S. 5 Grantham.
S.S. 2 Louth.
S.S. 3 Louth.
S.S. 4 Louth.
S.S. 4 Niagara.
s.S. 6 Niagara.

Mirdlesex, E., C'o. (l'upils' Woric).
S.S. 3 Biddulph.
S.S. 4. Dorehester.
S.S. 19 London.
S.S. 22 London.
S.S. 2 Nissouri, W. Odell's, Westminster
Oneida Indian Sichooh.
S.S. 2 Westminster.
S.S. 17 Westminster.

Norfolk Co. (Pupils's Work). Waterford.
Ontario Co. (Pupils' Work).
S.S. 4 Mara.

Manilla.
S.S. 1 Whitby, E.

Prince Edward Co. (Pupils' Work).
S.S. 10 Ameliasburg.
S.S. 2 Athol.
S.S. 5 Athol.

Consecon.
S.S. 10 Hillier.

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            I.-Counties-Comtiumed.
Prinee Edward Co. (Pupils'Work).
        S.S. :2 Maryshurg, N.
        Milford.
    Reufrew C'o. (Pupils' Work).
        S.S. -2 Algona, N.
        s.S. 3 Algona, &.
        S.s. I Alice.
        S.S. 6 Alice.
        s.S. :/ Bagot.
        S.S. 5 Bagot.
        S.S. 2 Bromley.
        S.S. 2 Brudenell.
            Forester's Falls.
    S.s. - Grattan.
    S.N. 8 Grattan.
    sis. & Horton.
    S.s. }10\mathrm{ McNab.
    &.S. }13\mathrm{ MeNab.
    s心. : Petawawa.
                Rankin.
                Rockingham.
    S.S. & lioss.
    S.S. 4 Ross.
N゙imcoe Co. (Pupils' Work).
    S.S. I Adjala.
    S.S. }5\mathrm{ Adjala.
    s.S. }6\mathrm{ Adjala.
                Bondhead.
    s.S. I Essa.
    S.s. & Essa
    A.S. }5\mathrm{ Essia
    NS.S. }6\mathrm{ Essa.
    S.S. }8\mathrm{ Essa,
    S.S. I0 Essa.
    S.S. 11 Essa.
    S.S. 1% Essa.
    S.S. l Gwillimbury, West.
    S.S. & Gwillimbury, West.
    S.S. If Gwillimbury, West.
    SN.6 Tnnistil.
    N心. 8 Imnisfil.
    S.S. 10 Imnisfil.
    *.S. 11 Immisfil.
    Ns. I:3 lmmistil.
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S＇intcue Co．（Pupils＇Work）． S．S． 1 Medora． S．S． 4 Tecumseth．
S．S． 8 Tecumseth．
S．s． 9 Tecumseth．
S．S． 17 is 13 Tecumscth and Essa．
S．S．こ＇Tossorontio Tottenhan．
S．s．I Watt．
W＇aterloo C＇o．（Pupils＇Work）．
S．S． 19 Dumfries，N．
S．S． 25 Dumfries，N．
S．S．\％Waterloo．
S．S． 17 Waterloo．
Welland Co．（Pupils＇Work）． Port Robinson．
Wellington Co．（l＇upils＇Work）．
S．S． 3 Eramosa．
S．S． 13 Erin．
S．S． 1 Garafraxa，W．
S．S． 9 Garafraxa，W． Glenallan．
S．S． 1 Guelph．
S．S．\＆Guelph．
S．S．tig Guelph．
S．s．$\overline{6}$（iuelph．
S．S． 1 Luther West and Garafraxa II．
S．S．12 Minto．
Parker．
S．S． 4 l＇ilkington．
S．S． 5 Pilkington．
S．S． 1 Puslineh．
S．S． 2 Puslinch．
s．S． 4 Puslineh． Salem． Speedside．
York Co．（Pupils＇Work）．
N．S． 4 Gwillimbury，l：
s．s． 4 King． l＇ottageville．
s．ん．：Vaughan．

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II．－Cities（Pupils＇Work）．
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Belleville．
Brantford Central Sch． Hamilton．
London Siep．Sch．
Ottawa Sep．Sch．
III．－－Towns（Pupils＇Worls）．
Amhersthurg．
Brockville．
Berlin．

St．Catharines Sep．Sch．
Stratford．
Toronto．
＇Toronto Sep．Sch．

> III.-Towss (Pupils' Work)-Continued.

Bowmanville.
Bowmanville Union Sch. Blenheim.
Barrie.
Brampton.
Chatham Central inch.
Cornwall sep. Sch.

Newmarket.
Pembroke.
Port Норе.
Picton.
Port Hope.
Port Hope Union Sch. Trenton.
IV._Villages (Pupils' Work).

Alliston.
Arnprior.
Bath.
Burlington.
Caledonia.
Carleton Place.
Drayton.
Dumville.
Fergus.
Gananoyue.
Gravenhurst.
Hespeler.

Iroquois.
Leamington.
London West.
Newcastle.
Newboro'.
Preston.
Port Dalhousie.
Richmond.
Stirling.
Uxbridge.
Wellington.

Provinclal Normal and Model Schools (Pupils' Work).

Toronto Normal School.
Do Model School.

Ottawa Normal School.
Do Model School.

Hıgi N'chools and Colleghate Institutes (Pupils' Work).

| Aylmer. | Kemptville. | Picton. |
| :--- | :--- | :--- |
| Belleville. | Kincardine. | St. Thomas. |
| Bradford. | London. | St. Mary's. |
| Brockville. | Morrisburg. | Stratford. |
| Caledonia. | Orangeville. | Strathroy. |
| Chatham. | Owen Sound. | Streetsville. |
| Fergus. | Parkhill. | Whitby. |
| Gananoque. | Port Perry. | Woodstock. |
| Hamilton. | Port Dover. |  |

## PART II.

## MECHANICS' INSTITUTES.

Specimens of Examination Papers on Drawing from the following Mechanies' Institutes :-
Aurora.
Ailsa Craig.
Almonte.
Arnprior.
Barrie.
Brantford.
Berlin.
Blyth.
Brockville.
Carleton Place.
Cheltenham.
Claude.
Durham.
Elora.
Galt.
Garden Island.
(icorgetown.

Goderich.
Guelph.
Kemptville.
Mount Forest.
Milton.
Midland.
Mitchell.
Newmarket.
Napanee.
Orangeville.
Orillia.
Paris.
Parkhill.
Perth.
Peterboro'.
Port Perry.

Prescott.
Preston.
Penetanguishene.
Richmond Hill.
St. Catharines.
Schomberg.
St. George.
St. Mary's.
Seaforth.
Stouffille.
Smith's Falls.
Strathroy.
Stratford.
Streetsville.
Whithy.
Woodstock.

Association of Mechanics' Institutes for Onterio.
IV. Elwards (Secretary of Association), Toronto.

Roll and Record Books.-Accession Books.
Carleton Place Mechumics' Institute.
Pupils' Work.-Machine Drawing, ete.
Lacey R. Johnson, Carleton Place.
Working Model of English Locomotive Engine, made to scale of one inch to the foot.
A. Parker, Carleton Place.

Ornamental Inlaid Wood Table.
Jas. McVety, Carleton Place.
Model of Dwelling House or Shanty, as built by the early settlers in Canada. Guelph Free Library.
J. O'Brien, and students, Guelph.

Ornamental Carving in Wood.
Garden Island Mechanics' Institute.
Archd. Cumming, Garden Island.
Working Model of a Larbour Tug Steam Engine.
Authony Malone, Garden Ishend.
Model of a Dram of Timber, as prepared for running the Rapids of the River St. Lawrence.

Galt Mechanics' Institute.
Machine Drawing.

Milton Mechumics' Instiute.

Freehand Drawing.
Port Perry Mechanics' Institute.
Frechand Drawing. Linear Perspective.
Iractical Geometry.

Freehand Drawing-
Perspective.
Whitby Mechanics' Institute.
Shading from the round.
Outline from the round.

Geometry and I'erspective. Mechanical Drawing. shading from the flat.

## Mechanics' Institutes and Branch Art Schools.

Reynolds' Chart of Condensing Steam Engine, Locomotive Engine, Oscillating Marine Engine, Marine Engine, Marine Paddle Eugine, Marine Screw Engine, High Pressure Engine, Conl Mining, Cotton Plant and its Cultivation, Distill. ing, Electric Telegraph, Fire Engine, Flour Mill, Gas Metre, Hydraulic Press, Paper Machine, Printing Machine, Pumps, Mechanism of Clocks, Mechanism of Watch, Manufacture of Coal Gas.
Mabrun's Turbine Wheel.
Examples of Machine Details (set of 16). Department of Science and Art.
Sopwith's Surveying Diagrams.

## PART III.

## AR'T SCHOOLS.

## Outario School of Ait, Toronto.

Freehand Drawing.
Drawing from Models.
Practical Geometry.
Linear Perspective.
Industrial Design.
Design for Paper HangingCompetitions for a Silver Medal, presented by the Ontario Manufacturers' Association.
Machine Drawing.
Architectural Drawing.
Shading from the Flat.

Charcoal from Life.
Shading from Antique.
Water Colors.
Oil Paintings.
Chasing in Brass.
Repoussé Work
Siculpture in Marble.
Eleetro-metallurgy.
Modelling in Clay, and Plaster Casts from Clay.
Carving in Wood.

Specimens of Elumentary PapersGrades, A. \& B.
Machine Drawing, etc.
Industrial Designs (Original).
Shading from Casts.
Crayon Drawings from the tlat.
Pen and Ink Drawing.

Oil Painting.
Wrater Colors.
Models in Clay and Plaster.
Models in Clay.
Plaster Models.
Paintings on China.

## Ottawa Art School.

Specimens of Examination Papers in Grades A. \& B.
Freehand Drawing.
Mechanics' Practical Geometry.
Practical Perspective Diagrams.
Mechanical Drawing.
Original Industrial Designs.
Industrial Designs-Competitions for Silver Medal offered by the Ontario Mauufacturers' Association.
Shading from the "Round."
Life Studies.
Water Colors.
Oil Paintings.
Ottawa Normal School.
R. 1I. Whale.

Oil Painting, "Kirby Mill."

## Kingston Art School.

Specimens of Examination Papers in Grades A. if B.
Perspective.
Architectural Drawing.
Mechanical Drawing.
Oricinal Designs for Industrial uses.
Designs for Oil Cloth in Competition for a Silver Medal, presented by the Ontario Manufacturers' Association.
Shading from the "Flat."
Anatomical Figures.
Outline from the " Round."
shading from the "Round."

Shading-still Life.
Flower Drawing.
Water Colors.
Oil Paintings.

PART IV.
INSTITUTIONS FOR THE EDUCATION OF THE BLIND AND DEAF AND DUMB.

Ontario Institution for the Education of the Blind, Brantford.
IIistorical and Statistigal.
Chart explaining the History and Statistics of the Institute.
Form of A pplication.
By-Laws.
Rules and Regulations.
Where it is, What it is, and What it does.
Annual Reports, 1882-3-4-5.

## Photographs.

View of Buildings.
View of Buildings and grounds.
A Piano Lesson.
A Tuning Lesson.
Appliances for Teaching.
Reading and Writing.
Point Print Slate.
Kmbosserl Book in Line Type.

A Knitting Class.
A Sewing Class.
Willow Work Shops.

Embossed Book in Point.
Embossed Book in Point Print.
Grooved Writing Cards.

Plysioloy!y unel Natural History.
Cast of Human Leg.
Stuffed l'ouched Gopher.
Stuffed l'rairie Hen.
Stuffed Ground Hog.
Stuffed Grakle.
Stutled Black Bass.
Willoz Work Modets.
Chair, Basket, etc.
l'zopils' Work.
Reading and Writing.
Embossed Book transcribed in Point Print.
Specimens of Writing with Grooved Cards.
Willow Work.
Bead Work.
Machine and IFand sewing.
Machine Knitted (ioods. Hand kinitting.

Ontario Institation for the Etlucation of the Deaf and Dumb, Belleville.
Statistical Ohart.
Photographé.

Deaf and Dumb Institute.
Deaf and Dumb Institute, with Pupils.
Boys Learning Shoemaking.
Football Club.
Text-Books.
Readers.
Arithmetic.
History.

Pantomime Club. Pantomime Club Superintendent and Oilicers. Superintendent's Residence.

Geography. Natural Philosophy. Religious Instruction,

Pupils' Work.
Crayon Drawings.

## PART V.

## COLLEGES OF AGRICULTURE AND VETERINARY NOIENCE.

Ontario Agricultural College and Experimental Farm, Guclph, Ontario.
Geology.
Spucimens illustrating the Geology of the Province of Ontario, used for teaching purposes.

Laurentian Series.
Huronian Series.
Cambrian Series.

Silurian Series.
Devoniun Series. Pleistncene.

Rocks which chiefly compose the Earun's Crust. Minerals which constitute the majority of Rocks. Animals which have influenced the Formation of Soil.
Mineralogical Collection.
Specimens used for purposes of reference in the Museum.
Native Elements.
Sulphides and Arsenides.
Chlorides and Fluorides.
Silicates.

Phosphates, Nitrates, Borates, and Tungstates.
Sulphates.
Carbonates.
Hydro-Carbons.

Botany.
Specimens illustrating Systematic and Economic Botany, used for teaching purposes*

## Zoology.

Model of a Horse, showing internal structure.
Model of a Cow, showing internal structure.
Head of Devon Steer, fed at the farm, aged four years, weighed $1,960 \mathrm{lbs}$.
Head of Prince Albert Windsor Boar, purchased from Her Majesty the Qneen, 1876, aged four years, weighed 410 lbs.
Coliection of Insects injurious to Vegetation-1 to 11, Apple; 12 and 13, Pear ; 14 to 17 , Plum ; 18 to 22 , Cherry ; 23 and 24, Cabbage ; 25 , Tomatoes; 20 to 32 ,
Grape ; 33, Currant ; 34, Pea; 35, Potatoes.
Collection of Coleoptera.
" $\quad$ Hymenoptera.
Agricultural Seeds in Bottles.
Barley.
Wheat.
Rye.
Oats.
Chart showing history and progress of the Institution.
" plan of experimental field plots.
"، plan of Farm.
" plan of Arboretum Planting, etc.
" Food in Cattle life, ten years at the farm.
." Milk per season, an estimate, 12 cows.
" Chemical analysis of Milk, 11 cows.
" Cream per cent., 11 cows.
" Butter Globules, result of 21 Microscopic observations at farm, 12 cows.
" Butter per 100 lbs ., Milk and Crean, 11 cows.
(: Cheese per $100 \mathrm{lbs} .$, Milk and Crēam, 11 cows.
" Farmers' Institutes held throughout the Province.
Photograph of Building.
Reports, etc.
Untario Agricultural Commission, 1881, four vols.
Dairymen's Association.-Reports, etc.
Reports of the Truit Growers' Association, and Entomolorical Society of Ontario, 1882.

Annual Reports of the Entomological Society, 1879-84.
Ontario Veterinary Colleyf, Toronto, Ontario.
Principal, A. Smeri, V.S.
(In comection with the Agricultural and Art Association.)
Photographs.
View of College.
Dissecting Rooms.
Operating lioom.
Operating Room with Students.
Portraits of 90 Senior Students, 1884 . $\%$. Portraits of Senior Students and Professors, 1886.

PART VI.
sClentific societies, commercial colleges, Ete.
School of Practical Science, Toronto. Established 1877.
Photograph of Building.
Specimens of Drawing from the Department of Engineering.
lst Year.
Descriptive Geometry.
Orthographie Projection.
Surveys.
Graphies.
Machine Drawing. Construction Copies.

2nd Year.
Descriptive Geometry.
Practice Sheets.
Copies.
3rd Year.
Surveys.
Constructive Design.
Copies.
Urthographic Projection.
Perspective Projection.
Stone Cutting.

Institute Canadien Français, de la citó d'Ottav:a.

- Crayon Drawings.

Indian 1nk and Pencil.
Mechanical Drawing.
Architectural and Masonry.
Linear Drawiug.

Perspective.
Map Drawing.
Fancy Lettering.
Penmanship.

Meteorological Observatory, Toronto.-Photograph of Huildings.
Brockrille Business College, Brockville, W. C. Austin, Principal.
Theory and Actual Business Department.
Test Books.
Students' Work.
Samples of the Money and Merchandise used by Students in the Actual Business Department of the College.

Canade Business College, Mamilton, R. E. Ciallagner, Principal.
Business Penmanship.
Otl-hand Flourishing.

Northern Business Colldye, Owen Soum, Ontario, (․ A. Eleming, Principal.
Specimens-Urnamental Penmanship.
Pen and Ink Sketeh, showing how to obtain Praetical Education.

## PART VIl.

 UNIVERSITIES, COLLEGES, SCiIOOLS OF MEDICINE, Etc.Albert Unirersity, Belleville.-Photograph of Buildings.
Victorin Uliversity, Cobourg.-Photograph of Buildings.
Kosmos (V. P. Journal), published by the Science Association of the College.
Acta Victoriana, a Monthly Journal published by the Literary and Jackson Societies.
Toronto University, Toronto.-Photograph of Buildings.
University Trinity College, Toronto.-Photograph of Buildings.
Upper C'anada College, Toronto.-Pupils' work. Photograph of Buildings.
Trinity College, Port Hope.-Photograph of Buildings.
Wycliffe College, Toronto.-View of Buildings.
K'nox Presbyterian College, T'oronto.-Photograph of Buildings.
Demill Ladies' College, Oshawa.-Painting of Buildings.
Alma Ladies' College, St. Thomas.

Pupils' Work.
Freehand from Flat Copy. Linear Perspcctive.
Ontario Ladiee' College, Whitby.
Photograph of Building. Pupils' Work. Freehand Drawing.
Brantford Ladies' College, Brantford.
Photograph of Builoing.
IIamilton Ladies' College, IIamilton.
Photograph of Building. Pupils' Work.
Woodstock Ladies' Colleyle, Woodstock.
Art Department.
Pupils' Work.
Oil Paintings.
Loretto Abbey, Toronto.
Photograph of Building.
Pupils' Work.
Oil Paintings.
Oil on Velvet.
Luretto C'onvent, Hamilton.
Pupils' Work.
Oil l'ainting on China.
Water Colors.

Geometry.
Shading from Antique.
Outline from the Round.

Original Designs.
Shading from the Flat.
Water Colors.

Pupils' Work, Oil Paintings.

Oil Paintings.

Water Colors.
Plain Crayons.
Pastel Crayons.

Water Colors.
Crayon Drawing.
Embroidery.
Wax Work.

Modelling in Clay.
Satin Stitch and Applique Work.
Honiton Lace.

Hellmuth Ladies' College, Lundon.- Photograph of Buildings.
Sarred Hieart Academy, London.- Lithograph of Buildings.
Loretto Convent, Viagara Falls.--Photograph of Buildings.
St. Joseph's Concent, Toronto. -Photograph of Buildings.
Convent of Notre Dame, Peterborough. - Photograph of Buildings.

Schools of Medicine, Etc.
Toronto School of Medicine, Toronto.-Photograph of Buildings, Chart of Statistics. Royal College of Physicians and Surgeons, Kingston.-Photograph of Building. Ontario Phurmaceutical College, Toronto.-Photograph of Duilding.

Other Institutions.
Osfoode IIall, Toronto.-Photographs of Buildings and Library.
De Le Sulle Institute, T'oronto.--Photograph of Building.

In addition to the catalogue a large edition of a pamphlet relating to the Educational system of the Province of Ontario, showing its progress, was distributed at the Exhibition. It contained brief descriptive sketches of the working of the Educational Institutions in Ontario as follows:-

## I.-ELEMENTARY SCHOOLS.

1. Kindergartens. 2. Public Schools, including Roman Catholic Separate Schools; with information on the Municipal system as applied to Schools; Public School Trustees and their dutics; Public School Inspectors and their duties; County Boards of Examiners and their duties; the Central Committee and its functions; Teachers' Examinations; Certificates to Teachers; Religious Instruction in the Schools, etc.

## II.-THE TRAINING OF TEACHERS.

1. County Model Schools, with course of study, etc. 2. Provincial, Normal and Model Schools, their object, course of instruction, ctc. 3. Training Institutes, course of study, etc. 4. County Teachers' Jnstitutes, formation and object. 5. Teachers' Reading Course, with list of books reconmended, etc. 6. Ontario Teachers' Association.
III.-CLASSICAL SCHOOLS.
2. County High Schools, qualifications of masters, course of study, etc. 2. Collegiate Institutes, how formed. 3. Upper Canada College, Endowment, course of instruction, etc.

## IV.-THE UNIVERSITJES.

1. University College, course of instruction, examination, etc. 2. The University of Toronto, its functions, ete.

## V.-TECHNICAL SCHOOLS.

1. School of Practical Science, course of study, etc. 2. Ontario School of Art, course of instruction, etc. 3. Ontario Agricultural College and Experimental Farm, its object, depurtment of instruction, etc.

## VI.-SCHOCLS FOR SPECIAL CLASSES.

1. Ontario Institution for the Deaf and Dumb, its history and ohjects, course of instruction, cte. 2. Ontario Institution for the Education of the Blind, its history, etc.

## VII.-INSTITUTIONS PARTLY AIDED BY GOVERNMLINT.

1. The Canadian Institute, Toronto. 2. Institut Cauadien, ()ttawa. 3. Meehanics' Institutes, throughout the Province. 4. Ontaric Society of Artists, Toronto. 5. L.ocal

Art Sichools, Toronto, Mttawa, Hamilton, Kingston and London. 6. Literary and Scientitio Society, Ottawa. 7. Hamilton Association. 8. The Entomological Society of Ontario.

YILI-UNIVERSITIE, COLLEGES, AN1) SCHOOLS NOT INDER PROVINCLAL CONTROL.

1. Undersities:--Victoria, at Cohourg; Queen's, at Kingston: Trinity College, at Toronto; Ottawa College; Western, at London. 2. Theological Culabess:-Knox, at Toronto (Preshyterian); Huron, at London (Church of Eugland): Werliff, at Toronto (Church of England); McMaster Hall, at Toronto (Baptist); St, Michacl's, at 'Toronto (Roman Catholic); Assumpion, at Sandwich (Roman Catholic). 3. Chassical ani Literary Colleges, Etc.:-Albert College, at lielleville; Woodstock Colloge; Trinity College School, at Port Hope; St. Nichael's (in part), Toronto. 4. Ladres' Collesies:Alexandra (department), at Belleville; Alma, at St. Thomas; Bishop Strachan School, at 'Toronto; Ladies' College, at Brantford; Hellmuth College, at London; Wesleyan Ladies' College, at Hamilton; Ontario Ladies' College, at Whithy; 'The Ladies' College, at Ottawa; Demill Ladies' College, at Oshawa; Ladies' College, W'oodstock (department); Loretto Abley, 'Toronto; Loretto Convents, at Hamilton, Lindsay and Niagara Fails; St. Joseph's Aeademy, Toronto. 5.-Medral Schools, Etc.:-The Colleme of Physicians and Surgeons of Ontario; Toronto School of Medicine; Trinity Medical School, Toronto; Royal College of Physicians and Surgeons, Toronto ; Collegry of Pharmacy, Toronto; School of Dentistry of the Royal College of Dental Surgcons, Toronto ; Women's Medical Colleges, Kingston and Toronto; Ontario Veternary College, Toronto. 6. Business Colleges:-At. Belleville, 1; Brockville, 1; Chathan, 1; (ruelph, 1; Hamilton, 2; Kingston, 1; London, 1; Peterboro', 1; Toronto, 2; Owen 'wind, 1.

## LN.-MISCELLANEOUS INSTITUTIONS.

1. The Magnetic and Metcorological Observatory, Toronto. .. Royal Military College, Kingston. 3. The Law Society of Upper Canada. 4. Public Libraries in Ontario.

## X.-BENEVOLENT EDUCATIONAL INSTITUTIONS.

1. Shingwauk Home for Indian Boys.
2. Wawanosh Home for Indian Girls, Sault Ste. Maric.

## NI.-BENEVOLENT EDUCATIONAL HOMES AND REFORMATORIES.

1. The Boys' Home, Toronto. 2. The Girls' Home, Toronto. 3. The Orphans' Home, Toronto. 4. Industrial School, Toronto. 5. Industrial Refuge for Girls, Toronto. 6. Ontario Reformatory for lioys.

In accordance with your instructions I got 500 copies each of the pamphlet and eatalogue bound together in eloth for distribution to H. M. School lnspectors, Clerks of School Boards, etc., throughout the United Kingdom. A copy of the following circular was sent with each book:-

Colonial and Indian Exilmition, 10th July, 1686.
Dear Sin,-I min directed by the Honorable the Minister of Erlucation to send herewith a pamphlet respecting the edneational system of the Province of Ontario, Canada, and a catalogue of Exhibits of School Material, Pupils' Work, etc., at the Colonial and Indian Exhibition.

I shall be pleased to meet any of H. M. Inspectors of Schools, Teachers, and Edueationists, by appointment; or give any information respecting our Exhibit, or School System, by correspondence.

Nearly every person to whom the circular was sent ackuowledged its receipt, and many of them made appointments to visit the Exhibition during the holidias ; nomongst others, letters were received from the Education Department, Whitehall ; H. M. School Inspectors, London, and School Boards in Acton, Ashford, Ariedale, Birmingham, Cambridge, Chelsea, Exeter, Edinburgh, Friston, Guildford, Harrow, llull, Ipswich, Kent, Liverpool, Manchester, Nottingham, Newcastle, Norwich, Oxford, Richmond, Rochdale, Salford, Wokingham, etc.

The following extracts show that the press took an interest in this scheme. The lilobe says:-
"The remarkable educational exhibit, which has been sent to South Kensington under the auspices of the Ontario Govermment, continues to attract the attention it merits from all chasses of visitors. Already it has been examined in detail by many educationists, a large number of whom will, however, be freer to spend time in the Conrt when the summer vacation begias. To bring the exhibit before the notice of these gentlemen, Dr. May has taken a wise step. To otticial school inspectors, to the principals of the leading schools and colleges, and to clerks of nfatly bound other similar authorities-numbering in all several hundreds-he has sent a Catalogue of the Exhibits. With a description of Ontario's Educational System, and a Department of Ontario, by the to visit the Court is also forwarded, G. W. Ross and Dr. S. Passmore May, a special invitation to furnish personally to such visitors an intimation is given that Dr. May will be most happy doubtlessly, be gladly accepted br many of the information in his power. The invitation will, and by this means mieh useful information the best-known members of the scholastic profession, in a matter which is so closely related to the real welfare of the province." Ontario's enterprise

The Schoolmaster remarks :-
"Dr. May will be happy to give every explanation which may be desired for educationists who are anxious to make a personal study of the results as they are displayed in South Kensingfor a collective guidence arsitors will communicate with him personally, he will be happy to arrange

As many of the inspectors and representatives of school boards notified the teacher in their respective districts, that the educational point would be of interest to them during the holidays, a large number of teachers and others concerned in education, accepted my invitation, and I am proud to say that many of them acknowledged the superi ority of our educational system, and all of them seemed surprised at the extent and excellence of our exhibit.

## Extract from Press:-

"The vacation, which is now drawing to a close, has enabled a large number of leading edueationists to pay a visit to the Ontario Edueational Court. In response to the circular issued by Dr. May, numerons replies have been reeeived from all parts of the Cnited Kingdon, and appointments been made with many leading members of the profession, for a carefnl eximination of Ontario's exhibit. Without an exception, these experts have all pronomeed thenselves as much pleased and surprised at the evidence afforded of Ontario's educational progress, and espenally with the excellent display of appliances for teaching, and the character of the speeimens of work done by the pupils.'

## OPINIONS OF THE BRITISI PREsS ON THE EDUCATHONAL ENHIBITS OF UNTARIO.

As it would secupy too much space to insert all the lengthy articles referring to our exhibits by the press, I shall contine myself to extracts from them, giving first a few of the notices relating to the general, and afterwards those which refer to special exhibits, in the order of classification in the cataloguc.

In a series of articles on the C'anadian section of the Exhibition, the Times notices the: educational exhibit of the Dominion. The writer remarks:-
"Canada hits already produced a very creditable national literature, notably in History and Sciente. A- the section devoted to education and instruction shows, Camahay has an excellent
 yore Way, the 6 e smissimer in charge There is much historizal and statist ival material showing fuire all aticle to it self to do it ju-tice edueation ; exhibits illuatrative n furniture and tittings. the progess anl present enmitionaphe of schools, colleges, ute.; shed in teaching anatomy and
 some of them highy bugamor, and other suljects; with abmates, art shons, inetitute fordeaf,


Alt these ate show and exhibited by the Ont ato tion
In a subsequent article the writer observes:-
"The educatiomal exhibits of C'mada deserve more detahe hepartment of colomial metivity so them in wur previnu inticles. In nome of the com Ehentional hepart ment of ontarn, under the




 sehouls, medieal and athe well represented in the dita kindergiten and chementary schonds. In classen of histitutions ane we whimg and results of the the eye and the tingers of the little mest dimt exhihits, shominite sems well adipted to The specimens of ant work, of milps, and uxdreses


 cellent work, as anyon may seo for himsel in vorne in the institutions the statist ies of these instiare exhinted in the court. The systens in vod their purpose ; and the statistios of methen and
 tutions on the central sereche well worth inspecting by thase interestediming of teathers for the apparatus in the gadery, are welly very great eare is hestowed on they have to undergare fomitment of education. Whols in Ontario. The exammations rite formilable as that of the Lomdun rarions chasses of schons in for the higher grades guite ats in in the educational system of (hn-
 B. A., and far more varied of apratas in all department. The Ontario Agricultual colloge, tario, and the speeine to
 established in 1894 , is litrgely yesults, it is evilent that the instige agricultural development of the the priblished reports a highly heneticial intlunce on the agricntrin interesting Cont. We ing, which mast have aly in few of the more evident feat the Elucational System on the Prom

 rince of ontarin, elucation in ('anala is in it heat he much mure valuable if they were grated many degree-granting lodies ; degrees womld bo too bany degren and miversity for each province."
suldy by one centrin men

The Schoolmuster, in a series of articles on the Schools of Greater Britain, describes at length the educational system of Ontario. The following extrat ontar as a matter articles:-
"In dealing with the elducation in every way the most important section, Its Elucation Departof course, in the first phech in emmpheness When helits the och.P.P. Minister of Edncatiom. necasion is represented with of the Hom. (feo. W. Ross, LL. B., Nolel Schools ; Public, Separate ment, under the threct Somal and Model Schools; Comer Canada Coblege, Schond of Jractical controls the lrovineial Collegiate Institutes; also, Eper Eatomal Shaseum, and Art Schools, and High Schools, am Collegheronto Cniversity, Educationent aid for educational purposes Science, University Conlege, forontations receiving Government aitans are summarizol and Medhanies' lnstitutes, and other institutsons these educational institntons are strision of Dr, S. in the Province of Ontant display, which has been prepared and Schools.
illustrated in an excellent dintendent of Mechanics lnstitutes not Aurn wor sincers thanks for the Passmore May, the superintent to Wr. May alike, we have to ral, and for the personal courtesy

To the Hon. Mr. Ros which has been placed at our cispos section." voluminno information wheh har interviews in the educational section." which has been displayed at our interviews in the elac.

The Morniny Post, in an intoresting article on Cunada, says:-
"A very remarkable and deeply interestang exhihit is made lay the Fhatation bepart Exhibits and the see of Ontarn, Camada, which is armaged in the space leetween the C'anmatian





 lase may he satid to he a combination of thasis, the system of chomentary schonls. That mw in

 struction in Ontario. Dr. Samuel Da morated as part and pared of the system of public in and Art Sidowls, has arraned the diawnore May, Superintendent of the Mer hamies Institutes

 enducation. Tho Kindergarten system has eves in an expecial manner to the advancemont of are worthy of the attention of those whas evidently takell deep rone in Cantala, and the exhibit. stady for chidhen in this comutry. The tine interested in this admirable method of facilitatmg paintings, drawings trom the life, The the art- have not beon neglected, and there are models.
 Canadia, in all that emerons artistic theine zeal which is exercised in Toront, its elsewhere in hut the worl-earvings and hronze work ang. some of tho pantings slow considerable talent. when cxamining the work here displaye are exceptimally execllent. One cammet help thinking teachers of drawing, past masters in the whe the improtation of a lew well-trathed Italian who would willingly emisrate, would pruse of in atre to be louml in home or Florence, and who have evidently tilent, but which prose of incstinable advantage to the young Camalians, th proper direction. But in all that has not always heen well devedoped, possibly from a bach The collection of geological specimens used fors science and agriculture, no fiate can be found. for instruction in anatomy are remarkably in tenching pupposes are capial, and the photomaphs nary science for their object. The Ahert I'river, motahy sw, those which have the veteriGraphe, and the Victoria Unsersity sureal mersity, Belleville sends some eapital photothe prpils take interest in all that is of importome in of a literary chameter, which powe that Roman Catholic laties' eolleres, whid mportane in ancient and modern art and history. The their laces and embro deries, and evidently devens throughout Canada, excel in the heauty of silk and the repronhetion of every kind of devote much attention to the arts of painting on section ly all whon take interest in edncational. A goorl hour could well be pared in this pay a visit to Dr. May, and ohtain direct firm matters, and those who dos so shomd not fail to part as well as to receive, it beine his oreat object whilet in deas and views caleulated to practically improvet, whilst in Englam, to ohtain from all soures

## The following extracts are from the Canadian (iasette:-

## 

Edueation is the glory of Canamia." This is the motto placed abowe the cutry to the Cana is fan edueational exhibits, and no visitor can inspect these exhibits withont feeling that the mana is far from a mere idle boast. Everyone knows how important a part chacation phays in the Ontario's se Dominion, and in no Province is this more the case than in Outario. dements of the systems of several euction is indeed remarkable, as a combination of the hest machinery of the schools have beon eomories. From New York some leuling iteas as to the ing; from hreland origimally cane the tained; from Germany tho system of Normal sehool train and from Massachusetts the system principle upon which the series of text-borks is based gathering here a little and there a little onalation uron which the sehools are supported. Thus. combining what is best in the leuline, Ontario hats suceeded in buiding up a system which, to the exact needs of the eomentry. Winethods of the ohd and new words, is admirahly suited face of the industrial development shown those neds are it is hardly neecssary to enipuire on the解
"The Ontario, Elucatimal Court is iself excellently representative of the advaneed pwsition assmed by education in the Province, and its inspection cammet he better undertaken than in fittle tromble to prevare."
.- The whole exhibit is one of the greatest interest, and, let it be inden, of the greatest edm-

 tiom ; for if, as bules Simon somewhere tells us, the peop, at least to-momow-the Province hats schoms is the greatest perple of the wom- ime now should be added, that urder Dr. S. P. wery reasm to, regard its future with great lope. Day, as Commissioner of Education at the Exhmo and Wechanies' Institutes of Ontario, the varmasessity for speedy refernee. It may alsi, be to their relative importance and the frequent necessity Fducation for Ontario, persomally intermentioned that the Hon. George W. Russ, Canada, and while in England was made an Homnary ested himself in the digplay here amd "
Commissioner of the Canalian Section."

## The Christien World says:-

"The Province of Outario has taken advantage of the Colonial and Indian Exhinition to call ttention to its educational system, of which it is justly prond. A complete collection of school appliances, pupils' work, ete, prepared moler the direction of the deseriptive and statistical phihited. A catalogue of this collection, prefaced by an exhan in the prosince. may be obtained excount of tho past progress and present position of education the Conmissiener in charge. The by anyone interested in the work from Dr. Pascmore May, and in forty years the children of pupulation of Ontario is now a little short of two milhons, and of schools has increased from school age have increased from 183,539 to 471,287 . 2,1010 to 5,316 , with a present annual expenditer provincial control ; nineteen elassical and literThere are five miversities or colleges not including two for women; and six theological colleges, ary colleges; eight medical colleges, and Scothand, the Roman Catholics, and the Baptists. belonging to the Churches of England and Scotmal institutions. The Simday-schools are 3,6041 There are various other miscellancous professional hochers. The Province has incorporated in number, with 200,000 scholars, tanght by 23 , what secmed to it the hest features in the edncation that knowledge is power. The progress made: own comitry. It evidently holiss firm ton the bereme."
is marvellous considering the ditticulties that have hat to
The South London Press in an article on Education at the Exangton will convince the
" A bricf study of the great Intercolonial Show at Suuth Kach of the courts there are inguirer of the progress education is making in our Cononics well as statistics of the number of photographs of school houses, colleges, and money ammally spent on schools, and other such children under instruction, the amonnt best educational display in the Exhilition, and judging information. Camada has, however, transathantic British dependency is intellectually more by its size and completeness, the great This is the most enlightened uge of the worla's history, and than keeping pace with the times. Weting in the efticioncy of ther systems of education, generia all civilized countries are now compod by their statesmen and politieal economists that education and teehnical, as it is well uderstood by theiration of the mases, and the surest foundation fors is the most powerful lever for the sochal eleration to be fully recognize! by the Govermment and the stahility of the State. This fact wouly called, Cpper Canada-the wealthiest, and most intlupeople of Ontario, or, as it was formerly cale educational display at South Kensingtom is very ential province in the Comfederation. fine, and while that of the Dommon is movinces. On the walls there ase ammerousphotographs. and most important of all the Canadian of which would seem to be buidings of considerable of the educational establishments, naly of wormen, St. Miehach's Colloge, Toronto, 'Trinity arehitectural merit, such as the Comeron Niamari Falk, and many other institutions for the College, Loronto, the Cathelic Convent at Niagan drawings by pupils of the Art Classes coninstruction of youth. There are also some excelfer recive a grant in aid from the provineind nected with the Mechanics' Institutes, all of whe, under a responsible Minister, who has recently Govemment, of which elucation is a depmrment he could effect in the Outario school system. made a tour in Europe to sce what improva, who is an experienced educhtionist, does the ProThe display, which was in charge of Dr. Mity, whollectual energy, as well as of cohesion and vince homour, aml is a strong evide
mity of action among her people."

A special repert for the Colonial Ewhibition Supplement on tho Ontario Educational Exhihit was prepared ly Mr. II. Courthorpe Bowen, M. A., Principal of the Finsbury Training Collego for middle and higher sehoots, from which I here give extracts, and shall
give others moter the diflerenc classes as extracts from Mr. Bowen's report. In his intro
ductory remarks, Mr: Bowen says:ductory remarks, Mr. Bowen says:
$\because$ Thunula the binthe of
tion of the edneational work and are heen thle to make a tolerahly minute examina Cimadian Court of the Colonial anged hy him, and now to be seen th the Gutario division of the
 I have bech mach struck liy the completenew hats left mon my mim. Let me ay at once that and by the gencaliy satisfactory chmeteness ambempronensivess of the eshatit as a whole educational system of which ond antacter of the wonk shown-wow which is the result of an
 tem of Ontario. In England orgmization cong in the ohd country to lo compared with the sys-
 anorgamized. This state of thines, Aheve this, the lowest grade, Earshash edncation is cutirely advantare, against which Gutario has mount, has its advantages; but it has one very great disJowest srade, anyone can assume the othon wisely protected itelf. In Enghish schoms, abowe the she is fitted to teach or to manase sehoul- of teacher without having satistied any test, that he on with only a few though very strikine exceptions ; while, stange to say, our inspectors of schools, rule, ever been schoolmasters. Even monost oure the most ambeur of all, and have mot, as a called, is ly mo means miversal, and what the our elementiry teachers traning. propedy sofactory. In butario, however, ats far is I can judse from the miny respects decidedly manatistem of training adopted and the conse of study je from the printed regu'ations, buth the systhough I think that more importance should he preseribed, seem to me very distinctly good; and that every teacher shond he required, even for the to the regolar sturly of leseyology, of the subject as is enntuined in such a luok even for the third-class certiticate, to master as muel book of P'sycholory, "While as to tho results of the sybly's smaller one * 'The Teacher's Handof the Public and High Sehrols of Ontario the system, as shown in the work of the pupils already, in my opinion, quite equal, and in sume em homstly siy that, taken as a whole, it is Elementary, Middle, and Grammar Schonls in Fugespects superior, to the average work of rime legiate Fistitutes. except perhaps in the departmengian. And, moreower, the work of the Colcompared with that of our sreat publie sehools

## F'or details of Mr, Bowen's report see notice of the different classes of exhibits,

## Extract from a lengthy article in the Clerkenvell Chronicle:- <br> 'The Ontario Court is situated at the end of the Mathinery in Mut

 charge of Dr. Miny, in experiencod educationist. At s,om feet of space, the exhilits lreing in loses an opportunity of disecting pullic attention At south Kensington this genthoman never an exceedingly interesting hamelmok, whichton to his exhibits, and to that ond has published school matters. In the centre of the contich he judicionsly distrilnutes to those interested in work of the last fow years and the basis upone whints which show at a glamee the educatioual onses are numerons models for the use uf 1 on which the system is established. lu clegant glass and Art Classes, many of them heing eonnerts, more especially those of the Nomal schools are in Ontario a great number seatter eonnected with the Mechanies' Institutes, of which there being eligible for certificates of compet up and down the country, the pupils of those classes Govemment. Toronto, the capital of Ony from the Edueation Departme $t$ of the Provinefal Church, and the people of that commumion bore separchiepiscopal see of the Roman Catholic eonatry, denominational sehools, and judring of thate schools, or, as they are called in this of them are large and handsme boildings, to which in from the display at the collinderies, many graphs 1r. May has given advantageons positions, a mat arangement in his collection of photioa spirit or inmartiality to Catholies and positmens, a rahler pleasant leato e, inasmurhas it shows details of this excellent exhibit of the educational ans alike Without going into the minute the large and tomphing Provinco of Ontarional progress made during the hast few years in a striking evidence of the push cul energy of her may, h wever, generalize ly saying that it is of photogmphs, models, drawings, scientific of her prople and Gowermment. The tine eollection work, carving in wood, metallurgial designs, and elass-hool fomiture, maps, ghobes, neaplelithid strides towards that higher eivilizations, flay class-books. are browern! withesses of her education."

[^0]$f$ the Finsbury tincts, and shall

PAl:T I.

##  COLLEGIATE INNTITLTES.

## Class 1.-Mistonicil avin Sthtistical.

This Class consisted of Erlucational Reports, Statistics, etc. The principal feature was an educational trophy, which was placed in the centre of the Gourt. It consisted of twelve large charts, showing the progress and statistics of Educational Institutions under control of the Eincation Department, and Educational Institutions assisted by the Government of this Province These were momnted on a dodecahedron or twelve-faced prism, withminors between the frames. On the top of each frame was a large photograph of the institution referred to in each chart. In the centre of the charts, and surmounting the: prism, was a semi-circular support for a 36 -inch globe, so colored and placed in position is to show the immense extent of territory in the Dominion of Canada.

This trophy was a great attraction, the excellent photographs of some of our principal educational buildings were much admired, and the statistics on the charts were so clearly indicated that persons conld see at a glance the immense edncational progress we have made in this Province during the past forty yoars.

In addition to the trophy, we had a large map of Ontario, specially prepared to show the number of public schools, high schools, colleges, ladies' colleges, universities, etc., in each county.

## Class 2.-School Methods and Organization.

In this Class were books on school methods, elucation, hygiene, etc. The following notices refer to some of the books:

The Srhoolmaster has the following review of the Manual of Jygiene for Schools and Colleges (Toronto, W. Briggs) :-
"Prepared by the Provincial Board of Health, and anthorized by the Manster of Educat tion, for use in all schowls under the control of the Education Department of Ontario, this work, while presenting nothing of originality in conception or treatment, appears to be a very fair compilation from acknowledged text-books and anthorities on both sides of the Atlantic. A mond table of contents preceles, and in index follows the text; while speedy reference is much facilitated by pinting the first worls of each paragraph, which are so emtrived as to give a che to what follows, in combensel type. The references in the index, tom, are to puragriphs, not puges. There is the usmil amome of elementary physiology ; which, however, we wouk rather were muitted, and tanght, as onr syllabus requires, previonsly fom special text-berks. Among the statistics alduced in proof of the inthenee of sanitary ingrowements on the health of towns, the most remarkahle are those slowing the rednetion of the montality from typhoid in Munich, from $\geq 12$ to 17 per 100,000 , step by step with the intruluction of hetter methoms of sewerage. We sloma, howerer, have liked to see more attention called to the fallacies incident to the incomsiderate use of statisties. There are some interesting remaks on the feasihility of sewage irrigation, even when the gromed is fromen hard mand eevered with show. Mr. W. Briggs' (not the pmblisher's) experiments with smoke in lemonstrating the movements of the air in romas, with the inlets and outlets in cliflerent positions, are most interesting, amb, shombley the vesitied, camot fiol to le of the utmost practical importance. He fombl a complete change of the air in every part of the rom omly when the outlet was at the level of the plow mud the inlet high on the same side. The chapters on selood lygiene are expecially groxd, and the work, as a

 ewer, that the intronaction of a few mathematieal formule in the chapters on ventiation and sewerge wonld be an improvelaent. consisted of utions under the Governprism, with rioph of the ounting the ced in posi-
our princirts were so progress we
prepared to ersities, etc.,
'he following
for Schools
er of Eduenin, this work, a it very fair Atlantic, A rente is much tugive a clue ragraphs, not would rather wis. Amons alth of towns, d in Munich, of seworage. nht to the inty of sewage Briggs' (not air in rowns, tliey be raichange of the the inler high 0 work, as a harower than think, howsentilation and.
 Toromtu: The Comp Clark Companys.
"We felt, after reading the preface of this look, that we should tind a shore history, but very well compiled and written, wal we were not disatpointerl. The hints to teathers, thomeh momewhat ont of phace, are excellent in their way, and there is a careful list of authons reemo member. We are surprised, however, that this list omits Mrs. Rawson Giardener's name."

The Rev. C. H. Spurgeon, in the suorel und Tromel, wefers to the "seripture Reald ings for High and Public Schools" as tollows:-
"Our Ontarin frients have selecterd these readings liom siripture, fur use in the solhonts of the Province, and the selection has been jullemusly mate. Without violation of religions liberty,
 and menality ! Where can these be so well leamed ats from the sucred Word ?"

## The Cheristian World, in a special notier, says:-

"We have received a copy of 'Scripture Remdings for High imh Public schomb, publisherl hy the Edncation Department, Ontario. The readings have been carefully selecten ind antanged by the represtatatives of all demominations. The wolume appars very suitable for the parpors in view. The readings are classified as histmical, devotional, didactie, prophetie, and momal; the (iospels ; the Aets of the Apostles ; and Sclections from the Epistles. The whole of the Bible is thas lad unler contribution, and the young folls, for whose benctit the book is designed, should obtain from it an intelligible idea of the main facts of satered history amd tenching, without the reverence, decorum, ind carim exphations. In the prefice, teachers are exhonted to due joined to lose no opportunity of inculeatine the Seriptere exereises are in progress, and are ento those to whom it is due." of mendeating the principles of truth and honesy, and whentience

## 'The Christian Iferald and Signs of the Times also remarks:-

"A volmue of 'Seripture Readings for High and Publie Schools' has been prepared muder the direction of the Education Department of Canala, which contains a eourse of lessons so arranged as to include the most instructive portion of both the Old and Now Testaments. Dr. ton, Londen, widl ton, Lonton, will answer any inquiries which may be mhlressed to him upon the subject."

## Class 3.-School Arcintecture and Photofirapis of School. Buldinges.

 These large photographs were mounted in liandsome black walnut frames, and dis-played in front of the galleries.

## The following extract is from the Clerkenwell Chronicle:-

"There are in the Exhibition numerons examples of the efincational developument of the colonies, but the largest and most important is that of Ontario, or, as it was formerly called, Upper Canadia. This tine display of School apmliances and pupils' work marks the extrardimary mareh of education in the Province alluderl to, which all authorities agree as beine a portion of the Dominion that has, during the last twenty years, male rajuid strides in the juths of photempraphs of the diflial progress. On the walls of the Ontario Elheational Cunrt are lawge Schools, Art Schools, Mechanichastie institutions. Elementary Schools, Normal Schools, Morlel Ontario, tuld other establishmentastitutes, Colleges, Comvents, Seminaries, the I'miversity of womandond of Ontario. Photorimphy the edncation and inprovement of the gonnt man and It may he fairly consilered a limplay is one of the trimples of motem science and ingennity. makes clear to the understanding scenes modern edneation, inasmuch as it portmys mon ensily momnt of descriptive writing ; and pacing phaces which conld not be so well done by my lishments, the ontario (iovermment has ang in the Exhilition pictures of their educatiomal estab)-

Evarwhere in ('anata the schenths aeted wisely and well. spichous buildings in the villages mal sumall are, genemaly speaking, the hargest and most comtile brovine of Gutmin, that directly mall buwns, and this applies specially in the rieh and ferof edneation, which is aldeporment of the merer tases itself rather heavily for the porses
sible Minister. The penple recugnize the necessity and value of education in the promotion of modustries and manufactures, as well as in the development of their country's many uatural resoures. On rethection, however, there is nothing very wonderful in the eolonies endeavoring (1) make education as general and as practical as possible, becanse, as a mole, it is only men of natural enterprise and energy who emigrate, and it is, therefore, entirely in accordance with the law of procress that they shall, in the new comotries of their choice, establish the most liberal and useful system of education they ean devise. A man may be illiterate, but endowed hy nature with large-heartedness and force of character, and such a man, by his vote and his money, will deremine that his comntry and his chiddrenshall, intellectually, be saperior to himself. This is in reality the secret of the great desire in the colonies to keep pace with the times in erluca-

## Class 4.-School Furniture and Fittingis.

School lesks and seats were exhibited in the Educational Court by the Bennet Furnishing Company, London, and W. Stahlschmidt \& Co., Preston. They were distributed throughout the Court in such a manner that, without obstructing the passages, the seats might be used by persons examining the exhibits. As over $5,000,000$ persons visited the Exhibition, it is a safe computation to say that over 500,000 persons used these seats during the Exhibition, and it is gratifying to state, that at the close they were apparently in es good condition as when first serewed to the floor.

The Bennet Furnishing Company have established manufactories in England and Se tland, and have fitted up several large schools with Canadian desks and seats. Messrs. Stahlschmidt \& Co. have opened up an ageney in London.

The Globe, referring to the excellence of the sehool desks in the Ontario Educational Court, says:-
" Unfortumately, in this country, sulficient attention has not been directed by schoolmasters to the inportance of providing desks and seats adapted to the requirements of children. We are told by persons in anthority, that the death-rate of ehildren is diminishing, in eonsequence of imremement in sanitary surroundings. We do not lesitate to say that the doath-rate would diminish in a much greater proportion if proper sehool-desks and sents were provided for

## Class 5.--Kindergarten Matemal.

Specimens of Kindergarten Furniture were exhilhited hy Selby d Co., Toronto. The smaller chai:s, painted to represent the primary colors, were a novelty, and there were numerous applications for their purchase.

## Class 6.-Physical Enucation.

A large gymmasium was exhibited by the Department, but for want of sufficient rom in the Educational Court, it had to be set up in the quadrant leading to the Albert Hall.

## Class 7.-Text Books.

1 large book-case, placed near the entrance to my office, contained samples of all the text books authorized for use in Publie Schools, High Schools, and Collegiate Institutes.

The following notice of the New Canadian Readers, authori/ed by th Minister of Eilueation, is from the Schoolmaster :-
"The Onturin Remers. First Reader (parts 1 and 2 ), and Second, Third and Fourth Readers. Townto: Copp, Clatk ※゙ Cu.

These Ontnio Realers are authorized by the Camadian Minister of Education for use in the public sehools, int nee tine specimens of what a set of rembing books should eombine. They
promotion of miny natmial es ende:woring is only men of dance with the e most liberal t endowed ly mad his mones, himself. Thi: imes in emluca-

Bennet Furre distributed ges, the scats as visited the rese seats durapparently in

England and ;eats. Messrs.

## Edueational

schoolmasters children. We a consequence thl-rate would provided for
oronto. The d there were of sutficient o the Albert
es of all the egiate Insti-
begin with the elements in Part 1 of the Firat leader, and grownally go on throngh the simplest primy excreses, nutil, in No. 4, we have selections from authors who stand in the fiont lamk of the Finst latature. High-elass pictorial illustrations are a consiterable feature in luoth parts
 for the next two stamdards, and the Funth ated for a gond second standarl, the Third header. is a veritable stomelouse of gems of month Brok would stat the upper-thasses in any sehomb. It students in the mother eomintry as we hopo it phang, and is as interesting to the adult and junion dian Dominion over the while Athantic, excellent accompaniments to the set. she prefaces and explanatory pages to each bow atre fre to be taught reading in a logical mamer, and to are an lomor to any comory. If ehildren lines, and withal to receive eneomacement in their dave the ir intelligence develeped on rational


Canadian Drawing Roolis Thelt
experienced teachers of drawing in the United Kingden :- from the most prominent and Cong of letter from Miss Ganu, Superintendeut of the Fond
patronage of the Queen, 43 Queen Siquare, Blomomshury. Fomale School of Art, umder the good enongh to send me, is boing speeially tlesigned for pupils in selhe," which yon hatre been in drawing wre yet mattainable, I think excellent for the puphts in sehmels when traned teathers

I might suggest, if you publish in further eourse, purpose. make a variety always desimble in teaching the eourse, that it would be interesting, ind would and treat them as you have done the horse che young, if you could make use of other leaves

Miss Wilson ind myself were mueh pe ehentaut in Book 2.
Canida in the Colonial and Industrial Exhibition, which vout to the Eduentional Departmont of planations.

We eonsidere. the Elementary work exceedingly good and the designs especially su, I wish we could have specified some of the works which pleased us most, but unfortunately we did wot take any notes at the time.

$$
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& 1 \text { have, ete., } \\
& \text { LOCISA GANN. }
\end{aligned}
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Copy of letter from Mr. J. Sbarks, Superintentent, National Ait Training School, South
sington. Kensington.
 good enough to send over to me.

The drawing bouks are good and earefully system, which deals with drawing from the fy edited, but I an still of opinion that the Belgian reommend it over drawing on paper, especially as, in children are five years old, has mueh to Govermment paper is about all that is thousht of in the feountry at least, "eramming" for the

I am quite sure blackboard tenching to classes is the fhand classes. thinking powers.

I remain, etc.,
Mr. Sparks' opinion perfectly coineides with that of this Department. We are en deavoring to make blackboard teaching in drawing most prominent in all our educational institutions, and it is generally adopted in the Art schools, hut, as subsequently explained to Mr. Sparks, drawing is comparatively a new subject in our public sehools, and as the majority of our teachers have had no experienee in this direction, the new series of drawing hooks are specially prepared to assist the teachers as well as pupils.

## Extract from Mr. Bowen's report :

" Dimuint,-By the kindness of Dr. May, 1 have been able to examine carefully the fine drawing-books of the 'Canadian Drawing Cousse,' and frem the print of view of ond fund of Art and a teacher keenly interested in Art teaching, I must premomes, them to be very good indeed. There are, however, one or two points with regard to them which I should bile very good inded.
fier reansideration. If the size of the books is intended to indieate the size of the pupil's drawwhen the work measures enu them fur-at least four times-tho small. The hume rownet he fire the hand, but the wrist offen, mane tho or thee inches in iss greitest length; while not inly The elaborate pietures of men and aniunals elbow sonetines, shonld le given free movement.
 Guml. On the other hand, there were some drawnings of flowers (from nature) from the (nutario, Aut selhonds, which were very goul. So, too, the Model drawings from nomst of the High Selnowls and Collegiate lustitutes were very satisfactory in regard to correctness and neatness, while these same schools and the Mechanics' lnstitutes exlibibed satisfactory, and in some cases exeel-
lent, speeimens of geometrieal drawing."

Mr. Bowen's oljection as to the size of drawings is removed by the previous state ment that these drawings are copied on the background ly the pupils.

We perfectly agree with Mr. Bowen in regard to the pictures of men and animals. They are of no practical value, but as they were sent from schools which had scarcely commenced work in accordance with the new system of industrial drawing now made compulsory, it was considered advisable to exhibit them so as to compare the value of former school work with that of the present time.

> Class 8.-Reading Ciarts, Etc.

The illustrated Reading Lessons exhibited by Messrs. Copp, Clark " Co., to accompany the First Readers, attracted much attention; the clearuess of type and excellence of drawing was much commented upon, and numerous applications were made for the purchase of the Tablet Reading Lessons displayed.

In this class, too, was a set of Tabulated Phonetic Alphabet Charts by Mr. Caleb P. Simpson, Leamington. These were of great interest to teachers, and especially those who had made a study of Phonotypy.

## Class 9.-Dr.iwing Mouels.

In this class were some excellent Drawing Models of common orjects, also sets of Primary Canadian and Geometrical Models adapted to the Canadian Irawiag Books. exhibited by Messrs. Sclby \&Co., Toronto.

## Class 10.-Music.

Messrs. R. S Williams \& Son exhibited a Public School Cabinet Organ, and Public and High School Piano in this class, As their instruments were frequently played upon ly an expert during the exhibition, visitors had an opportunity of judging of the quality of tone, power, etc. Although the Public School organ is so light that it can be carried by a cliild from room to room, it is sufficiently powerful for large school rooms or outdoor exercises.

The Canadian School Publishing Co., Toronto, also exhibited Music Charts and Books in this class, and I am informed that they have already received orders from England for the Normal Music Charts.

## Class 11.-Geography and Astronomy.

In this class we had a large display of topograplical illustrations consisting of Terrestrial, Raised, and Physical (ilobes, and a collection of School Maps and a Map Case with patent springs exhibited by the Map and School Supply Co., Toronto ; also Astrcnonical Illustrations, embracing Celestial Globes, Drawings, Astronomical and Physical Maps and Charts, etc., and a Newtonian or Astronomical Glohe recently invented by Mr. Turnbull, Toronto, and puhlished ly Messrs. Sellhy if Co., Toronto

## Class 12.-Cuemistry.

This chass contained some excellent Chronological Charts, including Merritt's Historical Tree of British North America.
puril's drawrannat he five rhile nut inly c movement. same sechools a rather than a the Gutari, High Schumls atness, while e eases excel-
wious statend animals. ad scarcely $v$ made come of former
, to accomceellence of for the pur-
r. Caleb P. y those who
ets of Prim4. exhibited

## Class 13.-Etinography.

This class was represented by busts of eelelrrated Canadian statesmen, Divines, Educationists, etc., together with a collection of colored portraits of Indians.

Class 14.-Anatomy and Puystolmiy.
A large glass case at the end of the Court contained Anatomical Models, which ineluded a Manikin or Model of the human body, showing its internal structure.

This ease was a great attraction, and was daily surrounded by crowds of persons.
Class 15.-Zoology.
In addition to the ordinary Zoologica! Charts for selhool purposes, we exhilited a full set of Audubon's Animals of North Amrerien, chiefly of the natural size, colored from nature, with common and technical names attached. The Ontario Agricultural College, Guelph, also exhibited collections of insects injurious and beneficial to vegetation.

Class 16.—Botany.
The Models of flowers exhilited in this class were of great interest to teaehers, and were aeknowledged to be of great value for illustrating Physiological Botany. In addition we exhibited Botanieal Charts, Flowers, Plants, and Object Lessons. The Ontario Agricultural College also exhibited specimens illustrating Systematic and Economic Botany used for teaching purposes.

> Class 17.-Cieology and Mineralogy.

This elass was well represented ly collections from the Ontario Agricultural College, including speeimens illustrating the Geology of the Provinee of Ontario, used for teaching purposes, including the differont geological groups, rocks which chietly compose the earth's erust, minerals which constitute the majority of rocks, animals which have inlluenced the formation of soil, etc., also a large mineralogical collection labelled to show species, crystallographie forms, chemical formula, and loeality.

## (lass 18.-Phlosophical Charts.

This elass was represented by the ordinary School Charts for teaching Natura

> Ccass 19.-Pursical and Cuemical Apparatus.

The apparatus exhibited filled several large glass eases, and is adapted for experiments in Matter, Force and Motion, (Iravitation and Molecular Attraetion; Hydrostatics,, Properties of Gises, Acoustics, Heat, Light, Magnetism, Frietional Electricity,
Dynamieal Electricity, and Chemistry.

The following is an extruet from Mr. Bowen's report:-
"The collection of appratus was very large mad very varien, and contained far more than 1 had time to examinc or have spitee to write about. The general result was very satisfactory, The appliances for teaching Plysical Scienee were very complete and good of their kind. The maps and the globes were goond. espreeinlly the latter; ;and I noticed a partienlarly clever timeglobe, invented, I was told, by Mr. Turubull, of Toronto. The glass moxlels of solids and their seetions, and of crystals, were well worth notice ; and in its way nothing conld be better than the anatomical manikin, which cuuld be taken to pieces and examined and then built up again. With it there were somo well-executed models of parts of the human bondy for the teaching of
physiology. But perhats the most striking of all was the eollection of geobgical speciberns sent by the Outarion Agricultural College, and the Exporimental Farm (Cinclph), illustrating the rock formation of Ontario. Nothing conld have heen hetter, or better arranged. The disseeted map of the southern jart of Ontario, used ly the lastitution for the Blind at Brant ford, struck me :t cever and worthy the attention of all teachers of the blind. The Bemett Furnishing Company (Lomdon), exhibit an excellent onk schooldesk for two, selid, steady, and marvellonsly chap; while the publie schonl organ of Messrs. I. S. Willians and Son (Toronto), is admirably suited for its purpuse."

## Extruct from the Pharmacesticel Journal:-

"The Legishature of (ontanio is very liberal in its votes for the support of scientific and edncational institutions. Evidence of this may be seen in the Educational conrt of Ontario lefore refereed to, which is well worthy of a visit to all interested in education and science. Apart from the large and varied collection of pupils' work from Public ame (inammar schools, Art Schools, Mechanies lnstitutes, ete, there is an exeellent disphay of physical and chemical apparatus, lotanical and geological charts, botanieal models, specimens of phants illustrating systematic and economie botany, insects injurious and beneficial to vegetation, gerlogical and mineralugical collections, ineluding roeks which chiefly compose the earth's crust, minerals which ennstitute the majority of rocks, animals which influence the formation of soils, ete., such as are nsed in Candian sehools and colleges. Altogether the exhibit is probably the host and largest display of general educational work and appliances ever exhibited by any one British colony,"
In this class was a collection of School Apparatus manufactured by the Map and
school Supply Co., Toronto. The Globe remarks on their exhibit:-
"The Map and School Supply Co., Toronto, has a large and varied assortment of educational appliances of their own manufacture in the Canadian Conrt. They are the largest manufacturers of school apparatus in the Province of Ontario. Mr. Chas. Potter, the senior member of the firm, supplied the globes and school appliances to the Edincation Department for over twenty years, during which time sehools were supplied from the Educational Depository. Some of the apratus, glohes, anatomical models, etc. exhibited by the Education Department are of his manlieture, and there is no donbt that. from his long experience, he is a thoroughly practieal man, well skilled in the construction and uses of all kinds of instruments for illustratng the princules of physies, chemistry, ete. This company's exhibit is elassified in the othicial catalogue under the following heads: 1. Seh of Furniture and Fittings, including numeral rames, with or without blackboards, sheepskin and fluted erasers, ete. ; 2. Topographical illus$t_{\text {ration, }}$ including maps of the continents, a new and improved school map of the Dominiom, showing the new territories, railroals, ete., and an ingeniously constructed map ease, which protects the maps when not in use, and is so constructed that the maps are not liable to the wear and tear found in ordinary map cases. 3. School Apparatus. In this deprartment they have a large display of instruments for experiments in pnenmaties, hydrostaties, hydraulics, electricity, heat, ete. The exhihit is a useful one, and the school teachers of Ontario may justly feel proud that they have apparatus mantinatured in their own Prevince which will bear comparisun in excellence of manufacture with those from older countries."

Class 20.-Puples' Work-Kindergarter.
Exhibits in this class were sent from the Provincial Model School and the Public school, Toronto.

## Mr. Bowen says :-

"K゙iudergorten Hork.-I learnt with the greatest satisfaction that the Kindergarten, in cone nection with the Publie School system, has been introducel into Toronto, Hazilton, and Berlin ; that at Toronto cell primary teachers receive Kindergarten training; and that each of the Provincial Nomal and Model Schools at Toronto and Ottawa has a Kindergarten teacher on its stall. This is exactly as it should be, except, perhaps, that all teachers whatsoever would be immensely benefited ly, and should be required to possess an acquaintance with Frobel's principles and methods. The above arrangements have only heen in full force for some two or threo years, so that the results shown are necessarily somewhat immature, especially in the eximples of eolor. 1 notieed some maps on glass which seemed to me to have aims other than Frebelian--to indicate an endearor to impart to children information which they are not ready to make use of for thenselves; while some of the wool-knitting was, I imagine, a little tow

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elabmate for chidren of the Kimargarten age $(+$ to $\delta$ ). I dare not venture to criticise further. for it is essentially the spirit, manner, and method in which the children are leal to work, and mot the work itself, which rembers their employment a Flowhelian hominimen instemd of a more mechanical necupation ; and it is just these three that wexlibition of wonk dowe can show. I ean say, however, that the little perple alrembevince consilerable nomenes ani skill in theis folling, and entting, and pattern making.

## 

This elass was represented by a large number ot schools in eities, towns, villages, and rural districts, and included nearly 10,000 separate axibits of Copy Books, Drawing Books, Maps, Arithmetie, ete.

In addition, specimens of pupils'work were sent from the Normal and Model schooks at Toronto and Ottawa, and the IIigh Schools and Collegiate Institutes.

## The Camadian Grartte, referring to the galleries, says :-

"Especially interesting in this gallery are the specimens of work from the 5,300 public and separate sehoms of the Province. Hese is represented work dome by children from seven to fourten years of age. The dhawing anm map, work is excellent, especially in the Tomontopublic sehools, and in the sepmate schuls of Ottawa."

## Extracts from the , Nchorlmaster:-

"There are in the Canarian Education Comrt no less than 1,2\%s exhibits in comnection with. the work of the publie schools. These have been aranged and classitied hy Dr. May, wither Whose guidance we made a cureful survey of selected specimens, which have heen sent wer as fair samples of the daily outcome of the Normal and Mondel Schools. the Public and High Schools, and the Collegiate Institutes. The Kindergaten work is excellent of its kind, and shows the results of the training in the Previncial Dodel School, Tononter, amd of the Public Schools of the same eity. From 5, 316 schools there las been sent a varied and exeellent collection whieh represents the ordinary work done by children from seven to fourteen years of age-

The drawings exhibited have been taken from the work in progress in the sehows in the middle of the term, and, although showing eomsiderable skill, are scaredy a fair example of the improvement which ean be male in a full session. We can speak favourably of the slecimens Whach were phaced lefore us by Dr. May. In all the departments of sehool work which we havo specified there are excellent examples of what can be accomplished in the free institutions of a country which has not yet resorterl to the degradation of its schools by the intliction of percent-
ages, or the illusury payment by the pass."

## Further extracts from Mr. Bowen's report:-

He silys: "I will now go more intodetails, and I trust that it will not be considered presumptums if here and there I ofler a few suggestions. I do not pretend to litwe mate by mat means an erchonstire examination of the material exhihited, so that mo inference whatever must he drawn from my silenee on any point, or any momssion to mention any sehrol or other insti-Writiag.-On the whole the writing was highly creditable in all grades of schools, especially
in the ease of the girls. 1 was particularly attractel the fifth elass of the Ottawa Marticularly attracted ly the clem timish of the work sent in hy while the Hamilton Collegriato Institute showed that wormd Iublic Schoul-in both cases girls: higher education. Indeed, it was surprising, and a matter wfiting is not incompatible with a little distinctly bad work was to be found at all amomerst so many hundreds of spech, how very one fault to be fumd-and it was quite a general one-was a slight tendency to too much' 'flourishing,' even in the best specimens. It was evident that the rery satisfactory results exhibited had been ohtained by comstant care and watchfuhess, for there seemerl to be nothing new or particularly striking in the system of excreises employed. I cannot but think, however, that even better results would be got-or at any rate time would be saved-if elementary freehand drawing were male more distinctly introhlutor:/ to, rather tham only supplementary to, writing. I do not mean by this that drawing should make writing one of its chief aims, but that it should come before and prepare the way for writing.

Composition.-Many very creditable essays were exhibited-short stories, descriptions, aceounts of the subjects treated in object lessons, ete. I was somewhat surprised however, to find that grammar is held to be the introduction to composition. The right introductiou is liter-ature-at least so it seems to me-beginning with the simplest poems and stories, and rising
 doubt whether any of owe hest writers could pass, or conld ever have passed in resprectilld examination in final grammar. We learn to write well by acpaintance with goen writing. Howerer, as I have silih, many ot the essays shown wore very ereditalde ; thongh, if 1 renumloer aright, this was generally in the casse of chler pupils who wood have already studied some
literature.
 the work sent in ly the Public Schouls, thongh satisfactury in nust eases as to methonl, was hurrien and untidy. Amrngst the specimens of arithmetie and bork-keerines sent in liy the Ryersm, Wellesley, Dutlerin, and Jesse Letchun Selnols, I moticen that a very lithe majority were decidedy gom-well rensoned, and the reasoming well set forth, and the bowk-keeping neatly written.
 fumbill if a very ordinary type. As to Map-drawing, the smaller maph were, in gencral, neat and tolerahly aceurate ; but I lid not notice that they were drawn may particular phan. I
 The larger colored majn leserve prase, especially some of thase irom the country selools. several, however, were ton crowded with manes. It struck me that a gow deal of time mast have leen spent over these maps, perhaps more than map-diawing realy deserves.

Ilistory. - The history naswers in the papers i lenked at were intelliyent, ani on the whole satisfactory. May 1 hint that pietures again would considn wably help the ioys and girls to realize what they read alont -pictures of individuals, places, buildings, seenes, ete. Dr. May tuld me that it is recomuender for the nse of High Schowls that :mall husts of celebrities ho nsed with the ancient history. This seems to me an exeellent idea.

English ticammer--The papers an this subject seemed gonerally satisfactory-the amalysis and parsing were in most eases well done. I downt, however, emsider it iltogethe. a good plan to allow the nse of 'forms' in analysis. I see that the 'general diructions' lity down that the elementary parts of grammar should be leant inductively, which is excellent. But the traces of induction were not very clear in the papers."

## Mr. Bowen's concluding remarks :-

"I feel that 1 have not notieed half as mueh as 1 might have dime, had I had more time at my disponal; and I dare say some of the teachers of Canada-my fellone tew hers, may I mot eall them :-will not agree with all of my remarks. But of this let them be she.e, that $i$ have been very strongly impressed with the edneatimal netivity and efficiency of ontario; that 1 have derived not only considerable pleasure, but also considerable profit from their admirable e-.hibit, whieh does such high eredit to everyme concerned; ;und that I num more than ever convincer that the Old Country has alread; very mueh to learn in edncational matters from her great daughtor beyond the sea. May that daughter go on and prosper continually-and she will prosper, no one can doubt, as long as-in the words written promaly over her Court in suth Kensington, -sle makes the goomess of the education she so liberally gives one of herelief chainstongry."

Sce also the notice on pupils' work given in the description of Educational Court, ly the editor of the Globe Colonial Exhibition Supplement.

## PART 11.

## mechanics' INstitutes.

About fifty Mechanics' Institutes sent specimens of 1rawing, including Freehand Geometry, Perspective, Model. Blackboard and P'rimary, Machine Drawing, etc. Several , reautiful models were also exhibited by members of Institutes, and some excellent specimens of wood-carving.

## The following extract on Mechanics' Institutes is from the Cilobe:-

"We append some further notes on the exhibits in the Ontario Educational Court from institutions partly under the control of the Provincial Goverminent. It should be noted, to the ctedit of the Province, that the Ontario Governmont is very liberal in encourging mecharies aul artisans to improve their spare time by reading and studying the different branolies of seiente applicable to their respective pursuits. It is mentioned in the Exhibition catalogne, prepared by Dr. May, that the Mechanies' Institutes receive from the Guvermment two dollars for

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 rlawing, suitable for mechanics, is one of the most pephlar sulojerts ot starly. Is many as lifty institutes seme to the Exhibition specimens of exmanation work in freehmm, germetrical, perspective, model and menory drawing, In aldition we notice the following:-

Carleton Place Mechanics' lastitate sent it large enllection of specinems of machine dran. ings; these, we understanl, are chictly done loy workmen employed in the workshopes of the Canadian lacitie Railway. They exhibit eonsiderable skill, and refleet great reedit ons the teathers, who, wo are infomad, were tained it Sonth Kensingtom. [robably tho most interresting. ingenious and leantiful piece of work slowing industry and jersevernace, is a working wuld of an English loeomotive empine, mule to the seale of one inelito the foot, exhilited by Mr. Lacey R. Johnston, Iresident of the Institnte. This monlel has been greatly admined by persons interested in machinery, who promomeo it to he ono of the most perfect and ingenions working morlels ever exhibited. Ihis same lnstituto also eontributes a beatiful mammental inlaid table, the work of Mr. A. I'aker, and a model of olwelling-house or shanty as built by the early settlers in Canada by Mr. James MeVety,
linelph Free Library exhibits some rery choice specimens of carving in wood by Mr. J. o'brien and several students.

Garden Island Meehanies Institute is well represented. Mr. Anthony Malone, President of the lustitute, exhibits a perfect model of a dran of timber as prepared for rumbing the rapids of the River St. Lawrence, Jon or more of these drams are Inshed together and called a raft. It is remarkible that the rafting and forworling of stuare hewn timber for the Quebec market was commenced at Garden Islami, from which this model is sont. In I844, Mr. Dileno Dexter Calvin established a ousiness for forwartang timber at Garden lsland. This business, ineluding ship-buiding, has hees carried on by the same family up to the present day ; it is now a prosperous town with one of the best Mechanies' Institutes in Canada. Dhing the past season, 1885, there was forwarded from the port of Kingston to Quebee, square oak timber, over 1,700 , (N0) eubic feet ; uhn and ash, wer $1,000,000$ cubic feet; scuive and waney pine, over $2,700,000$ cubie feet. The vast forests of Canadi, which are stid to be pratieally inexhaustible for home comsumption and the probathle demands of commerce for centuries to eome, are a somree of


Mr. Arehibald Cumuing exhibits a very beatiful working model of a hirbor tug steam engine from the same Institute.

Galt Mechanies' listitute sends some excellent "weimens of mathine drawing, done by workmen employed in the Grand Trunk Railway worksi.

Port Perry Mechanics' Institute exhibits a large collection of crawin linear perspective, practical geometry, meehanienl lrawing, shating, ote.

Whitby Mechanies' Institute contributes a collection of dawings in treehamb perspeutive and shaling and outline from the romme.

The people of Ontario are to be congratulated on the execllence of this portion of their exhibit, which has largely contributed to show visitors at the Exhibition the intustry, zeal and perseremane of the working chasses of the Dominion in olntaning pritetical knowledge, invaluable to them in their dialy life, and in rendering them intelligent aisd self-reliant citizens."

## The Canudian Cinwte, in a lengthy article on Education in Muturio, observes:-

"That since the time of Confederation, Mechanies' Instituies have been established, a/s ammal grant given to eith Institute by the Laeal liwemment, provided it supplies a library, reading-rom, and evening elasses. This inportant braneh of the public service has been $n$ the hands o: the Provineial Eduation Department since 1880, and is mow directed by the Minister of Elucation, to supply proctical education of value to alult artisans. There are about 150 of these Meehanies' Institutes in operation throughont Ontario, in a populat tion of only two millions, and of these betwen sixty and seventy are mow brameles of the Art schools. The work from several Institutes is now on display in the Conrt. From it may he gathered that a practical knowledge of drawing is imparted-first, by freehand ; seeond, by *eometry and perspective ; and third, by industrial drawing. Tho industrial designs prepared at these Mechanics' Institutes have elicited general commendation. Meehanies, practieal chomistry, and the varions hranches of physies, are also tanght in , these Institutes, thus bearing directly upon the textile and other manufactures of the comutry."

## The Presi says :-

"The work from the Mechanies' Institutes has attracted a great deal of attention from manufacturers and others in connection with the growing recognition of the importance of training mechanies and artisms in industrial drawing."

## Palt ilf.

## ART SCHOOLS

The students of Art Schools in Toronto, Ottawn, London, and Kingston, contril,uted largely to the success of the Educational Exhibit. The large collection of Drawings, Paintings, Carving on Wood, Modelling on Clay, PlasterC'asts, Painting on China, etc., wey ${ }^{*}$ much admired, and especially so the specimens of Industrial Designs, which were acknowledged by experts to be of considerable merit, and valuable exhibits from an new country, showing as they to that encouragement is given by the Government to the developuent of artistic work appiicable to trades and munufactures.

The Marquis of Lorne was so much pleased with some of tho designs for wall paper from Toronto, that he recommended me to place then in the hands of some English manufacturers. This I conld not do, as they are the property of the students.

Before leaving England, having received an intination that Her Majesty the Queen would be pleasel to accept a few specimens of Art school work from Ontario, I selected sone exhibits from the different departments, and forwarded them with a letter referring to our advancement in industrinl Art education during the past few yoars, and the great interest H. R. H. the Princess Lonise and the Marquis of Lorne lad taken in the promotion of Art work during the ir residence in Canada.

In reply, I received the following letter from Gennral sir Heury Ponsonby, Pri-
Secretary to the Queen: vate secretary to the Queen:

O-honese, Janumy Rth. Iskti.
Dear Sir, -The articles forwarled by you arrivel here to-day, athl I have given them to the Queen, whin Was very much plased with them, amb has commanded me to thank yon for sending these well-executed specimens of the worlk of the Stulents of the Ait Schools, Ednen-
tion Department. Toronto.

> 1 have the hum th he, Dearsir, $\begin{aligned} & \text { (Nigneml) } \text { Yours faithfully, } \\ & \text { HENRY F. PoNsoNBY. }\end{aligned}$

Each of the Art Schools had separate compartments for the display of their "xhibits.

The British press made frequent notice of the excellence of this section of the Edu"ational Court.

The following extract is from the Canadion limepte:-
"The work from these Art Selnowls of Ontarin is such its would do credit to many wheler erumpres. The origin of smme of the exhibits is interesting. In view of the Exhibition, the Gutario Mamfieturers' Assuciation otfered melials for the hest designs for varims manufacturing
 motifying them th preprare forthwith various designs. The Tormonto ichoon designs were prepanel for purer-hamgings : in Ottawa for irm-work, such as railings, fenees, etc.; in Lomdon, designs
 ing, then, the fact that no selection is makle in the exhibits in this elass, all the competitive designs being shown, ant that hut a fortnight was allowed for the work, Ontario has reasom to be proud of the result. It mugustionably formas annst important part of the Court. From the Toronto, School of Art there also comes extellent wonk in lectro-metallurgy taken from plaster casts ind electrotypes from mature, as well as monlels in clay, amp phaster casts from clay. (iond imina. Even the are also shown. The Art School of London comes ont strongly in painting on yuent means of livelihood for youns ladies in, ant the product is excellent, illustrating a frecal work is illustrated in such a way is tues in the Province. By the Kingstonexhibits mechaniKensington Art Scloool. The Ottawa designs, especially the original ind ustrial desigus, are also excellent, and the complete system hy which the eye of the pupil is trained to exactness of detail cammet hut elicit adhiration. (horon in woit is also shown from the branch Art schools, of which there are over fifty est Mishat at Mechanics Institutes, all receiving Government assistance. The specimens from $G$ welph a whell for the progress made in this section.

## Extract from Mr. Howen's rethort:-



 impiety will he furgiven me. I will ter th hexp on the graw walk. Fiast, then, I motieed sone very striking neellowork (flowers) from Loretto Consent, (Hamilton), and seme really beatifnl artificial thewers from the Lometh Ablay (Tornato).

The Ladies College, at bramlond, have also combiluted some rather ambitions work in oil and water-colons. The machine drawing mul the eatoing in wond sent in hy the Mechanices Institutes, fomed a most interesting collection, including many sp cemens of really excellent work: as did alse their freehand drawins. What the most attractive man most memomble ex-
 Landon, Ottawa, and Kingstom. The time at my dispest was all tom shat to allow of my dome
 ally in the case of ottawa-was one of consilerable pleasure, and-if 1 may he honest without oflenee-not a little smprise. 'the meree emmeration of the varieties of work from the Art Echools is sulliciently striking ; life studies, vils and water-colors, frechund drawings of every kind, industrial designs, arehitectural and machine drawings, shathy from the antigue and from the that, chasing in lrass, mondelling in clay and phaster casts frem elay, carving in woot, painting on china, and even deetro-metallurgy and renousse work. It is somewhat diticult to kuow What tomention mungst somuch. I may say, however, that the advamed work genemally of the Ontario School of Art ('Tononto) was excellent : the wall-paner patterns showed great taste in design and coloring ; the drawings from the antique were very good indeed, but perhajs a little too heavily shailed; and the word-anving, metal-work, and plaster casts were, in mamy cases, highly creditahle. I moticed, by the way, a pertrait of Dr. May in phaster, wheh, though madoubtedly like, was by no mems flattering. The Western Sehool of Art (Londen) showed srime very good painting on china. The Dttawa School of Aut deserves very decided praise. The paintings of Howers and phants, with industrial designs invented from then, were delightful - excellent in form and composition and colut. The life-studies were very gond indeed: and the water-colors were highly creditable. The drawings of a wrought-iron fence, and the collection of industrial designs, which very decided praise. From the $K$ in schowl the original designs for industrial uses
were again strikingly good.

## JART IV.

## INSI, LL LIONS EOR THE BLIND, DEAF ANL I)U Ull.

Exhibits were sent from the Ontario Institution for the Education of the Blind, Brantford, consisting of appliances for teaching and pupils' work; similar exhibits were also sent from the Ontario Institution for the Education of the Deaf an 1 Dumb, Belleville.

These exhibits were greatly admired; the ladies' work from the Blind Institution, as well as the ingenious appliances for teaching, came in for a full share of praise: the photographs from Belleville, showing the employments as well as amusements, were also of great interest.

Probably a larger number of persons made enquiries about these Institutions than might have been expected, because a Royal Commission was sitting which had been appointed to irstitute enquiries as to the systems adopted by different countries for the instruction of the Blind and Deaf and Dumb. It caused great surprise to visitors whern they found that these excellent institutions are under the management of the Government, as they did not expect a colony would thus take tho initiative in providing institutions undor fiovernment control for the cducation of our fellow citizens who are deprived of seeing or hearing.

The press made comments on this subject because similar institutions in the United Kingdom are dependent for support upon voluntary subscriptions.

The following letter refers to one of these notices:-

:32 Ablintimos Stheft,
Westminatea, (ith March, 1886 ).
 28th, which states that yon eonld furnish us with ample information regaading the lnstitution of the Deaf and Dumb and Blind in Canala. If it were in your power to do this it would be gratifying to the Commission. We are most anxious to ascertain the practices and general views uf our Colonies and of foregn comatries, so as to enable ns to report fully on the matter to the Queen with a view towards legislation.

I remain, ete.,

## C. E. D. BLACK.

I made an appointment with the Secretary, and afterwards sent all the printed reports, etc., in my possession, including a specinl report by the late Rev. Dr. Ryerson on the Education of the Blind and Deaf and Dumb in Europe and the United States.

## Extract from Camadian Gazette:

"We find that Ontario has taken a decided leal of Engliand in the provision of free education lior the deaf and dumb and blind. The Ontamo Institution for the Deaf and Dumb is at Bolleville, and is open for a period of seven yars to all deaf-mutes from seven to twenty years of age who are not delicient in intellect, and are free from contagious disease. This institution was established by the Ontario Govermment in 18\%0, at an expenditure of 200.000 dollars. The whole tuition is free, lout those who are able to pay are charged 50 dollins ( $£ 10$ ) a yrar for bard,
 the most modem known to the civilizel work, following what is termed the 'combined' seholastie and industrial system. Every attention, too, is paid to physical training. The gymnasium, games, and ealisthenic exercises form an ossential prat of the currienlum, ind a glanee at some photogriphs of the members of the Mute Pantomine Club and the Fontball Club will certainly astonish those who are miccustomed to see in deaf-mutes such a high development of mental and physical powers. The Ontario Institution for the Blind was established at Brantforl by the Ontario (foremment in 18.3 , at an expenditure of 22,000 dollars. The couse of instruction is divided into three departments. In the literary heprirtment a sumd English education is given. The masical department embraees instruction in pipe and reed and string instruments, and it is werthy of note as showing the high standard attaned that several ex-pupils of the institution are employed as tuners by Messrs. Mason d Riseh, the well-kown pimoforte makers of Toronto. I'hen, thirdly, there is the imelustrial department, comprising instruction for male pupils in lasket and chair making and pianoforte tuning, and for females in sewing machine, sewing. cmbroidery, and kindred work. The blind institution is thas supplementary to the publie sehond -ystem of the Provinee, and idmits those whose sight is so impaired as to prevent their receiving instruction by the odinary methods. Hence it is not necessary for a pupil to be entirely blimd to benetit hy the adrantages of the institution. The models used for the manufacture of biskets, ete, are chamed to hare considerable advantages wer those in general use ; while the remarkable crochet, head, and other work which is contributed by female pupils, is a powerful testimony to the etheacy of the methode alopted. Natural history is also taught at sehools, pupils leing accustomed to the forms of ammals by excellent monted specimens. Another exhilit from the institution is worthy of note. It is a map of Ontaris, dissected so that each part, representing it comity, can be taken away. On the face of the map the rivers, boundaries, railways, towns, eities, ete., are depicted by mems of indentations and small mails of various sizes. a child, thus guided by the shape of ench comnty, the identations, and the small mails, is able to gain im accurate knowledge of the geography of this Prorince sueh as couhl not otherwise he

PARTV.
COLLEGES OF AGRICULTURE, VETERINARY SCIENCE, Erc,
The Ontario Agricultural College and Experimental Farm, Gnelph, was well represented. In addition to Statistical, Experimental, and other large charts and photographs
1886.
of October stitution of ld be gratill views of ter to the

## ACK.

e printed yerson on
ree eductmmb is at aty years nstitution an's. The for harde, retion are d' selholmussiun, 3 at some certainly of mental ord by the netion is 1 is given. and it is. ution are Townito. pupils in sewing. lic schon, receiving ely blind baskets, remarkiul testis, pupils exhibit t, repreailways, izes. 1 able to wise he
beautifully mounted, this Institution exhibited very valuable collections of Geologyand Mineralogy, Mlants, Models, etc., used for teaching purposes ; also Agricultural seeds, collections of insects, ete.

The whole exhibit filled over twenty small glass eases besides covering several hundreds of feet of wall space.

Application was made for the loan of a portion of these exhibits for the Agricultural Exhibition at Norwich. 1 sent some charts, etc., and subsequently received a letter from Mr. Dyke, Emigration Agent for the Dominion, stating that some of the leading continental agriculturists were desirous of getting copies of those charts for their colleges.

I may state that the Ontario Agricultural College ranks very high in the estimation of the old country. I was frequently told by men of experience, aequainted with the methods employed for teaching Agrieulture in different countries that there was no Agrieultural College in the world superior to the Ontario Agricultural College for imparting instruction to young men for practio al farming.

I had so many enquiries as to the terms, etc., that 1 thought it desirable before leaving England to publish a short description of this Institution, and accordingly prepared a long letter, which, through the courtesy of the editors, was printed in the field; the text of this letter was copied in other papers. The following is from the Globe :-

## "THE ONTARIO AGRICULTURAL COLLEGE.

"In consequence of numerous enquiries as to the facilities for obtaining in Canada thorough education in practical farming, Dr. May contributes to the fielul a brief accomut of the Agricultural College maintained hy the Govermment of Ontario at Guelph. He writes :-
-The Ontario Agricultural College and Experimental Farm is sitnated near the city of Guelph, in the centre of an extensive agricnltural and stock-raising district. This institution, establi hed by the Government under the administativo control of the Commissioner of Agriculture, has for its ohject-1, to give a mistery of the pratice and theory of hasbindry to young men congaged in agricultural or horticultural pursuits, or intending to engage in such; and 2, to conduct experiments tending to the solntion of questions of material interest to the auricultural ists of the province, and topulish the results from time to time. The eollege buiddings are very spacions mid commodiens, and the farm consists of bio acres, about 400 of wheh ire cleared It is comblucted by an able statl of professors and instructoms, and fitted with modern appliances for giving it thomogh and pactical kowledge of every brathe of agrientare.
'Professons Shellon, of the Wilts imil Hants Agricultumb Colle es. Eightand, in a recent felere sitys : it is a thourishing, thongh route a yong institution; and its inthenee is beine felt in the agriculture of the province. The stadents receive an agricultural edneation in which science is happily blemed with practice, and theory is beme out hy demonstration.
-The instruction given at the institution is embraced mider two heals-a conse of study and a comse of apprentienship. The eonse of study is diviled into five departments: Agriculture, inchding rectamation of lands; preparation, caltivation, and suceession of crops; improvement of soils and hands; breeding, rearing, and feeding of animals: implements of the


The course of appenticeship is divided ecomomy. $\overline{\mathrm{b}}$. Mathomaties and lonk-kepping. inchadng dairying. 2. The live-stock depurntore tivertments: I. The farm department, mechanical departmont. 5. The experimental department hortientemal department. 4. The are required to work every altermate afternoom, and forme In these departments the stmonts they are paid at a rate per hom fixed by the farm superinte home ever momines. For this hather to the board accomits.

- Young men whose parents aro non-residents in ontatio, we permitted to enjoy the mavantages of this institution on the payment of the following fees: 1 . Those who have served an apprenticeship of one year on a Canadian farm, eto per ammo. 2 . Those who have not served an apprenticeship on a Canalian farm, $t^{2} 20$ the tirst year, and $f 10$ the second year ; board, lodging, and light, 10 s . per week. About thirty per cent, of the students are from other comintries, including the United Kingdom, the Tnited States, ete.
'In a brief sketch it is, of course, impossible for me to point out all the advantages young men, intenting to become practicnl farmers, can obtain by attending the Ontario Agricultural College, but I will enumorate a few of them. Students have an opportunity of hecoming fainly skilled in the gen ath work of the farm. A portion of the fam is latid out in small plots, and it regularly and systematically cearvici roots, grapes, manures, and varions modes of managemont is regularly and systematically carried on from year to yenr. In the live-stock of managemont is
are ninc breeds of eattle, nine of sheep, and three of pisk, kept for the parpose of instruction amblemeriments are mide to test by feeding, the consiarative value of difterent kinds of feed As an illustration of the practical chameter of this kind of work done at the farm, 1 may refer to the large charts exhibited by this institution in the Ontario Educational Court at the Colonial Exhibition, showing food in catlle life, ten years at the farm; milk per sedsen, 12 cows ; ohemical analysis of milk, 11 eows ; cream per cent., 11 eows ; buttor crlobules, result of twenty-one microsenpie observations at farm, 12 cows ; butter per 100 lb ., milk and erean, 11 cows ; cheese per 100 Jb , milk and cream, 11 cows. I may remark, e" perssont, that some of the leading Continental agrieulturists have appliod for copies of these charts for use in their colleres. The sthdent ean also obtain a practical knowledge of gardening, as there are three grecohouses, a largo kitchen garden, a vinery, a 30 -acro lawn, an arboretum, and a large varicty of froit and ornamental trees. He is also traned in the use of carpenters' rools - a most invaluable aequisition in pioncer life. He ohtains a knowledge of the structure and functions of firm animals, ind the most ipproved methods of treating and preventing diseases to which such amimals are liaile and, finally, I may sity that, by tho systematic teaching employed, his mind is expanded, his reasoning powers morensed, and he beomes an ardent admirer of nature, and a nobler specimen
of true manhood.
'Now, a few brief words showing why Ontaric is considered such a bomanza by parents desirous of educating their children in that grand science which makes the true nobleman of nature. The Province of Ontario embraces an atrea of about 200,000 square miles, nearly $80,000 \mathrm{more}$ than the Uniter Kingdom. It is enomously rich in minerals; its lorests are so vast that they are capable of supplymy all the timber required for home conemution and every probable tish, and its forests with centuries to come; its rivers and lakes are abmudintly supplied with elcment of mational wealth is its soil and the proilsprings and prolitie salt-wells; but the great eminent American statesman, in an artiele in th Nonth Americon Revirw, Davs: "The Province of Ontario is as fair a country as exists on the North American continent. It is the natural lahitat on this continent of the combing-wool sheep. It is the land where grows the tinest larley. It raises and grazes the finest of cattle, ind its climatic conditions, created ly an almort encirelement of the great lakes, specially fit it to grow men. Such a country is one of the grentest gifts of Providence to the hmman race, better than bonamzas of silver, and rivers whose samds contain gold.' I may also remark that the climate of Ontario is one of the most pleasant and healthful in the world ; the old deseription of Canadian seasoms-six months of summer and six months of winter-has no appliention whaterer. The winter in the southern part of Ontario usually begins about Christmas, and lasts until the latter lart of Mareh; further north it begins about the middle of Decemher, and lreaks up during the first or sif eond week in April.
'The exports of agriculturul proxlucts from Ontario are amually increasing. As the agricultural statistics show the total exprats of the Dominion, it is impossible to give the exact proportion exported by the Province of Ontario; but it is usually comphted that Ontario fumishes tive-sixils of the whole. The value of exportations were as follows in 1885: Horses, $81,640,-$ the pust half eentury the sheep, $81,264,811$; cheese, $88,902,115$; butter. $81,430,905$. During seven, and the area of land in occupate population (now over $2,000,000$ ) has been muttiplied by ordinary development has taken phation (now $23,300,000$ aeres) by thirteen, mat this extraexpansion followed by collapse.
' In eonclusion I may remark that there are 129 free grant distriets in Ontario, each containing 50,000 to 60,000 aeres, and other districts will he opened up as railroads and colonization roads are ennstructed. Sy an Act passed during the present year, the head of a family ean obtain a free grant of 160 neres of land, and single men, over cighteen years of age, 120 acres. The fumbint of money repuired to make $n$ successful settlement upom a free grant is from $\mathrm{f}_{\mathrm{f}} \mathbf{6 0}$ to £100. Improved or cleared farms can easily be obtained hy those desirous of residing near old is from $£ 10$ to $£ 15$ per acere but in for good farms, including luildings, in the old sottlements, is from from $£ 1$ bs. to $\mathfrak{f} 3$ per acre.
(Signed)
S. PASSMOREjMAY, M.D.

This letter gave rise to considerable correspondence, in addition to enquiries from prrsons with from $£ 1,000$ to $£ 5,000$ capital anxious to bencfit thomselves. Further infor mation was asked for in regard to tho College, by parents intending to send their sons to Cauma, aud in more than one instance propositions were made that the parents themselves should purchase farms and reside in this country so soon as hisir sons could undertake farm management.

The Ontarin Virerinary College also had an exhibit in this class.

The following extract from the Gilube sufficiently explains the excellence of this ex-
$t$ :-hibit:-
"Ontamo Vetemixary Collefer, Toronto--Probably one of the most attractive exhibits in the Elueatimal Cinrt are the harge photographs from the Ontario Veterinary College, confessors, and princinal, cole ege, dissecting reoms, operatioy romas, portraits of students, morhiament, emprwered to, estakhesh a $\backslash$ Veteringry and practice of the Veterinary Art, back as 18 if a series of lectures on, and ass to the breeding of domesticated animals. So far Professor Smith, the present Princinal inal pre was given at Toronto Liniversity College, and lectures in comection therewith. In I86:9 part of the of the Ontario Veterimary College, gave institution has gradually grown matil it has renched premises nuw occupied wats built, and the largest and most popular veterinary colleges in tho wide prome pisitic in of being one of tho from this College, and there are more than 300 stud word. Over cioo students have graduated There is a full staff of professors, who lecture stadents in attendmee during the present session. istry, the diseases of domesticaten animals, patlonongy, etce, Physiology, mat rria medica, ehemdissecting rooms, an excellent musemmand pat lowhy, etc. There are large and well-ventilated a week for the disenssion of subjects in compertinn ermary Medieal Soriety, which meets twiee The opportunities for actual practice are very wine with the advancement of Veterinary Science. eattle, treated in the intirmary in emnection with this Cullege number of eases, independent of was 1,074 , and 84 horses were examinted for somudness. Siveeial attention is given to diserased cattle, for which there are great advantages in Torontro, as 2, ,ioo atendion is given to diiseased establishment alome in that eity from Octeber to June, as 2 , fiod heid of enttle are fed in one
"It is very $\quad$ ing to find that, through the ene of the Principi allege draws students in the energy, perseverince, and untiring industry ing Repulbic. hilhit at Sonth Kensingt large numbers on all parts of the neighberwho gather in erowets to look at the photographs of the sty admured, particuharly ly the ladies, ent countries and diflerent elimes, gathered toghs of the students, representing as they do differledge of one of the most noble protessions-that of in a Cumaian College to olbtain a knowbrute creation. We may remark that Her Majesty the (hating the pam mald suterings of the hibit when visiting the Educatimal Conrt, soon alter the opening of the Exhibition."

The Cirucede lineate refers to this College as beins the world.

## PART VI.

## sCilool of pliadtidal science, soikntific nocheties, and COMMERCLAL COLLEGES.

merchandise used by students in the actual business repartment of the College : text-lowks, ete., showing the thoroughly practical tatining young men ean obtain in this College before their entrance into commercial life. We have alrealy congratulated Ontario on the excellence of her publie school system, whieh is generally acknowledged to be equal, if not superior, to any in the world ; we can also sincerely congrat thate the Province on the excellence of her business colleges, where young men receive an e meation which is specially adapted to assist them in wercoming the ditliculties usually fouste at the begimning of a commercial careor. These exhibits ate displayed on the principal entrance arehway, and are a source of great attraction."

## PART VII.

## UNIVERSITIES, COLLEGES, SCHOOLS OF MEDICLNE, Erc.

The Universities were represented by photographs only, with the exception of Victoria University, Cobourg, which sent publications of societies in connection therewith. Upper Canada College sent specimens of Writing and Drawing.

The Ladies' Colleges had a lan se exhibit. Alma College, St. Thomas, sent a valuable collection of Freehand Drawings, Perspective, Geometry, Shading from Antique, Outlines from the Round, etc. This College is in affiliation with the Ontario School of Art for examination purposes. Ontario Ladies' College, Whitby, also in aftiliation with the Ontario School of Art, had an excellent exhibit of Freehand Drawings, Original Designs, shading, Water Colors, etc. The Ladies' Colleges, Brantford, Hamilton, and Woodstock, had large collections of Oil and Water Color Paintings.

## Extract from Colonial Exhibition Supplement :-

" Proceeding now to the galleries, Art is prominent on the walls of the right gallery. Here the contributions come from the Ladies' Colloges, at Woodstoek, Hamilton, Whitby, Brantford, and St. Thomas, and are as varied as they are excellent in character."

The Loretto Abbey, Toronto, and Loretto Convent, Himilton, sent Oil and Water ('olor Paintings, Crayon Drawings, Embroidery, Honiton Lace, Modelling in Clay, etc.

Each of the Colleges was allotted separate compartments, which were prominently labelled, showing name of Institution, name of Exhibit, Residence, Description of Work, etc.

## The following remarks are from the cilobe :-

"The Roman Cathuluc ©olleges. - In our last issue we referred to exhibits in tho Educaiomal Curt, from astitutions not under control of the Education Department. Amongst these are exhibils from homan Catholic Colleges, which are a markable for their excellenee, and at the same time are evidenee of the kindly feeling which exists in Ontario between Catholies and Protestants. The Education Depurtment of Ontario, representing as it dees the Govermment, sets an example worthy to be copicd by ohter comatrius in thas acknowledging all creeds :und giving prominence to exhibits where prominence is due.

* The exhibits from the Roman Catholic Colleges are displayed so well mad so eonspienously as to reffect great credit on Dr. May in the arrangement of the Court. There Colleges have their special aleoves in the centre of the principal gallery, and articles liable to injury from oxporure are phaced in handsome glass cases made specially for these exhithits.
"Wint of space forbids onr referring to all the articles exhibited. The following brief notes may: however, be of interest: The Loretto Abhey, Toronto, sends some beatiful wotk done ly the pupils, includiag Oil Paintings, Oil on Velvet, Water Colors, Crayon Drawings, Embroidery, Wix Flowers, etc. It may not be genorally known that this Abbey is a braneh of an Jinstituto which has been for more than two cen aries devoted to the instruction of yonth. The mother honse was estahlished in Rome, m.d so far baek us lis8, houses in connection therewith were estallished in this comrtry, In 1882, the community established a house nt Rathfaruham, neme Dublin. To this tirst Irishl fomdation the Mother Superior gave the name of 'Loretto' from, he Honse of Lazareth, now at Loretts, in Ialy. All filiations from the mother hous have carSod the name with them, and it has hecome very familinr in Canad, roprosenting ns it does cadumies mud convents in several of the principal cities and towns. Tho Toronto Abber proides a liheral course al instruction in all branches of knowledse required in the edueation of
young ladies, inclucting ancient and modern tanguages, instramental and wowal music, tine art In ramions brimehes, embroidery, necillework, etc, also domestic ecomomy ; the sime course of instruction is purssed in the main in all the Convents and Aememies of Loretto in Canalat.
mbraces Coilection of pupils' work frum Loretto Convent, Hamilton, is also very beautiful. It Work, Homiton Lang on Chma, Water Colors, Mo lelling in Clay, Satin Sliteh and Apriput cation impurted by the ladie for
" The Educatiomal Cuurt alsa cunt timal Institutions hesides those of L , rent de Notre Dime, P'eterlomough, ind St Joseph's the Sared Heat Academy, L mom ; Concent buildings, in commanding ind hediy poite ment, formento. They are all magnitithuse interested in erfucation shonhl not fail to eximuine thesumed with spacious grounds ; and oif the Roman Catholic hadies of Ontario." (he exame these proufs of the zeal anderprise

Photographs of Toronto School of Medicine, Lhoyal College of Pharmacy and surgery, says:-
"It will, perhers, interest seme of our realers who may be visiting the Colonial and ludian Exhinition, to mention that in the Educational Conrt of Ontario there is a large photograph
 gratulatel on their sucecess in building so handsome and commondions a structure.

## Conclusion.

The question may arise, What benefit has our Province derived from its Educational Exhibit in Eagland? To this I would reply, That amongst the five and a-half millions of visitors it has, no doubt, imparted information to hundreds of thousands of people who previously knew little or nothing of Canada. It has opened up new avenues of thought as to the value of the productions of our fertile fields, and the great wealth from our inexhaustible fisheries. It has enabled them to julge of the value of education upon the industrial development, national wealth, prosperity and happiness of our people.

It has given them a knowledge of the immense territory and natural resourees of this Province, which, with a population of only about $2,000,000$, has nevertheless increased nearly 500 per cent. during the past fifty years, about 100 per cent. more than the proportionate increase during the same period in the United States.

We have shown, too, that our knowledge and intelligence has been increased by our ree system of education, and this is of consequence, as it is generally acknowledged that the supremacy of a nation, either in peace or war, depends upon the intelligence of its people.

In these days of science, when time and space may be said to he almost annihilated, and intercommunication between distant countries so easily established, the competition is such that it becomes necessary for manufactured grools to be of artistic design, well constructed, and at the same time produced so cheaply as possible by the nid of labor-saving appliances. We have proved that our Government assists in developing the latent talent of the industrial classes, by teaching the branches of knowledge which enables them to construct and manufacture these labour-saving appliances, so valuable in the hands of skilled artisans. If we take drawing as an extmple, the teaching of industr:al drawing is now made compulsory in the sehools, and is fostered and encouraged in the Meehanics' [nstitutes of this Province. Educationists and manufacturers both say that industrial drawing is the foundation of industrial education ; they substantiate this by showing that every mechanic should possess some knowledge of drawing, and prove from calculations that the produetive elficiency of machine shops would be increased one-third if every meehanic could read working drawings so as to work by them.

In this minuer our Educational Exhibit has enabled the people of different nations to judge Eur themselves of that system of education, which we claim has promoted and inculcated self-relianee, preserving industry and rapid advancoment in all which tends to the civilization and prosperity of a country.

I may further state that the Educational Exhibit from Ontario was of great interest in England last year, because of the recent change in the school law, requiring sehool
fees to be paid in advance. In London the fees are fixed with reference to the social condition of the neightorhoods in which the schools are placed. The average fec of the London School Board is a small fraction over four cents per week.

The new law requires these fees to be paid in advance, and if not paid the parents are prosecuted in a criminal court, for the teclinical legal offence of not having sent their children to school. This law came into force on the 4th October, 1886, and the day preceding (Sunday) a mass meeting was held in Trafalgar Square, denouncing this new rule of the School Board and advocating free education. The excitement was considerable, and the press, generally, discussed the question as to Fee or Frve Schools.

As may be supposed, numerous enquirics were made as to the working of the Ontario Free Public Schools. I gave all the information in my power, and liberaliy distributed the pamphlets relating to the School System of Ontario. I also sent copies of the pamphlet to the members of the London School Boarci, at the same time offering to meet them, individually or collectively, to give any further information if required. Finally, at the request of several prominent educationists, I prepared the following letter, which, by the courtesy of the Editor, was published in the Schoolmaster, the leading educational paper in the United Kingdom :-

## free education in the province of ontario, canada.

In consequence of the recent discussion in the public press on Free Schools, I have had numerous inquiries at the Colonial Exhibition as to the management of the Free Schools of Ontario ; and as the question of free or fee still continues to be agitated, it has been suggested to me that before leaving England I make known to the public, so far a; possible, the educational system in relation to Free Schools in Ontario; and as I know of no better channel than the Schoolmaster, I have to ask you kindly 1 , give space in your valuable columns for that purpose.

I shall not make comparisons of the methods omployed in other countries, neither shall I take up space by giving a detailed historical sketch of the rise and progress of our public school system, which commenced so far back as 1816, but refer only to the present position of the Free Public Schools of Ontario, and to make this more comprehensive I shall divide the subject into different headings.

## Adminstration.

The administration of the Educational System of Ontario is provided for by statute as follows :-There shall be a Department of Education, which shall consist of the Executive Council, or a committee thereof, appointed by the Lieutenant-Governor : and one of the said Executive Council, to be nominatell by the Lieutenant-Governor, shall hold the office of "Minister of Education." It will thus be seen that the Minister of Education is under control of the representatives of the people.

The duties of the Minister of Education are very onerous, amongst which he has. power to make regulations for the chassification, organization, discipline, and government of Normal, Model, High, Public, and Separate Schools; for the equipment and ventilation of school-houses; for the arrangement and requisites of school-premises ; for the authorization of text-books for the use of pupils ; to appoint Inspectors of High Schools. Separate Schools, and County Model Schools, Masters of Provincial Normal and Model Schools, and lirectors of 'Teachers' Institutes; to provide for the training of teachers; to make regulations for granting the pensions provided by law for superannuated Inspectors and Teachers, etc.

I noticed in the press of last week that Mr. Matthew Arnold, in his parting words to the teachers assembled together to do him honor on his retirement from public life, said: "Insist on having a Minister of Education. What we want in a Minister of Elucation is this : a centre where we can fix the responsibility. Insist, therefore-as you, the chief sufferers, by mistakes and neglects in the management of Education, have a right to insist--insist on having a Minister of Education."

I need only remark that in Ontario we have a responsible Minister, who is responsible to the teachers and responsible to the people, and the advantage of this system $i_{\text {s: }}$ e of the parents nt lheir lay preew rule derable, of the liy disopies of ring to quired. fletter, leading.
that we can get a thoroughly practical man. The present Minister of Elucan Hon. George W. Ross, Ll.B. has been a Public school Terser of Education, the Model School Inspector. IIc is, therefore, convere school Teacher and Inspector, and agement; and his admini-tration gives satisfaction with all the details of school mandrustees, as well as to parents and children.

## Free Schools.

All P'ublic Schools in Ontario are free schools, and every person between the age of tive and twenty-one years has the right to attend some school.

In 18.50 the Legislature invested each school division, or section, with power to decide anmually for itself whether the schools should be entirely free. In 1866 the ratepayers themselves had made more than four-fifths of the schools free. The question of of all shoould be mede opinion that all persons shonld contribute cording to the amount of property they possessed, it ben of the youth of the land atbetter protected and increased in value whers enterprise of all the people are encouraged. The education, intelligence, industry, and lutely free by the voice of the people.

Local Management, and Appointment of School Thustees. which rests upon the free action of the Government is uniform throughout the Province, tion comprises minor wunicipal corporationsers of each municipality. The organizapalities governed by a council of the heations, consisting of townships; county munici population of over 750 ; towns with a heads of the minor municipalities; villages with a lation of over 10,000 . The Rev. Dr. Ryerson, the over 2,000 ; and cities with a popuSchools, thus describes the facilitios Ryerson, the founder of the Ontario System of Free system :-_"It is in Upper Canada (now Ontario) educational progress by the municipal form system of municipal organization, from the one that we have a complete and unilarcest city, and from the feeblest school section smallest incorporated village to the county or union of counties-the one rising abon and romotest township to the largest one emerging into the otber for purposes of wider expenther, but not superseding it - the tion. By their constitution, the municipal wider expansion and more extensive combinasentiments and feelings of the people within their corporations are reflections of the their powers are adequate to meet all the coon respective circles of jurisdiction, and whether of schools or roads, of the diffus the conomic exigencies of such municipality,

On the incorporation of any city, town, or villedge, or the development of wealth." held; the persons qualified to be elected tro, or village, an clection of school trustees is is, assessed householders, whether owners or tees must be actual resident ratepayers-that every ratepayer of the age of twenty-one years, whants, or persons assessed for incoine; and entitled to vote at any election for school trust who resides within the municipality, is fore the trustees are appointed and contrustes, or on any other school question. Theretatives of the people, they are practically the owners of people themselves. As represen-

## Duties of School Truetees.

The trustees prepare the estimates of the sums required for all school purposes, including purchase of Site, Building, Furniture, Teachers' Salary, etc.; these estimates are lad before the Municipal Council, which has power to levy and collect upon all taxable trustees.

The trustees are unier fined by the Education Departations to provide adequate school accommodation, as deage ; to appoint a sufficient number, of two-thirds of the actual resident children of school quired by the Department ; to permit all childr, who "must possess the qualifications re-
charge. To see that no unanthorized books are used in the school, and that the pupils are supplied with a uniform series of authorized text-books sanctioned by the Education Department. To provide maps, apparatus, libraries, etc. To take possession and lave the custody of all public school property. To visit the schools under their charge from time to time, and prepare annual reports on forms prescribed by the Education Department. They have the power of dismissing refractory pupils, and they can exempt indigent persons from the payment of school rates. They are bound to keep the schools open the whole year, except during vacations.

## Legislative Assistance.

Large sums are anmually granted liy the Legislature to be apportioned by the Minister of Education amongst the municipalities, on condition that they raise by rate a sum equal, at least, to that apportioned to them, both mounts being solely devoted to the payment of teachers' salaries.

The Legislative Grant averages only about 7 per cent. of the total amount raised for public schools. The amount of Legislative Grant in 1884 was two hundred and sixtyseven thousand dollars, whilst the total receipts for all public school purposes was no less. than three million, seven hundred and thirty thousand dollars.

This, of itself, is a sufficient proof of the excellence and popularity of the Free School system, inasmuch as the people voluntarily tax themselves for it maintenance and support.

## Public Sciool Inspectors.

The Inspectors are appointed by the municipal councils, and must have had practical experience in teaching. They must either be holders of first-class provincial certificates, or graduates in arts, with tirst-class honors, of a provincial university, and fumish evidence of having taught successfully for five years, of which three at least must have been spent in a public school.

The duties of an Inspector are to examine into the methods of instruction, ascertain the progress made by the pupils, see that the schools are properly equippel, and that no unauthorized books are used in the school. They have the power to withhold the school grant; they apportion the school grant according to the average school attendance of pupils; they can grant temporary certificates for thaching, or suspend teachers' certiticates for cause. They luave to report to the Education Department, and see that its laws and regulations are observed.

The powers of Inspcetors are very great, but they are trained, responsible men, in whom the ratepayers have confidence ; and that it is not misplaced, can loe judged from the great progress made in the education of the children, as evidenced by the exhibits of pupils' work at the Colonial Exhibition, which received commendatory notices from leading educationists and the press in general. Nearly every school under their inspection is provided with wall maps, tlie total number in use being over 40,000 ; a large number of the schools are also supplied with globes and school apparatus. Great improvement has been made in the school buildings, which are now well ventilated, and provision made for the comfort of the children by properly constructed seats and desks, etc. School arehitecture has made wonderful progress in the Province, because the Inspectors advise with the trustees, in erecting good permanent buildings, adapted for sehool purposes. The large photographs of our Schools at the Exhibition were admired by thousands of persons, who were surprised to find that, with a population of less than two millions, we have 5,375 Public Free Schools, many of which, in architectural beauty of design, are equal to those found in older and wealthier countries. As stated at the commencement, it is not my intention to discuss school methods, but I do most earnestly direct attention to the importance of having school Inspectors selected from trained teachers, and invested with all the necessary powers to promote the efficiency and general welfare of the schools im their charge.
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## Public School Teaciers.

The conditions on which public school teachers' certificates may be granted, are preseribed by the Department. The certificates issued are-first-class, gates A, I, and C ; second-class, and third-class. First and second-class certiticates are valid throughont the Province, and are held during good behavior, while the third-class are limited to a period of thrce years. The holder, however, may, on passing the Departmental Examination, olitain a renewal of the same for three years, subiect to attendance at a County Model school. There can be no renewal without re-exa ination. In an emergency the Ministar of Education has power to extend the duration of a certificate. Third-chass certificates are granted by County Boards of Examiners, the School Inspector being chairman of the examining board in his district. Necond-class certificates are granted only on condition that the candidates have passel thenon-professional eximination in literature and s sience, held at the High Schools; must have taught successfully for at least one year in a Public, School in the Province, and must have attended for one session a Provincial Normal School.

First-chass certificates are granted only upon the following conditions:-That the candidate (1) must be the holder of a first-class non-professional certificate; (2) must have passed the professional exumination for a second-chass certificate; and (3) must have attended a training institute for one session, and passed the prescribed examination thereat.

In 1884 Ontario had 7,085 public school teachers; 235 held first-class certilicates; 2,237 held second-class certificates ; and 3,420 held third-class certificates; the Dalance having temporary certiticates. The number of male teachers was 2,789 , and fumale teachers 4,296 .

The Minister of Education, in his ammid report of 1884, says, in reference to the standard of the teachers employed: "It will be noticed that there is an increase of twentytour in the number holding provincial first-class certificates. This increase, in view of the demand for teachers possessing the highest attainments, is very gratifying. Owing to the superior culture required for teachers of this rank, the number eligible for a certifcate is necessarily limited. There is, also, a very large inctease in the number holding secondclass certificates, namely, from 1,201 in 1876 to 2,237 in 1884 , while at the same time the number of third-clas: teachers is being gradually reduced. These are two very sutisfactory features of the progress of education. The steady increase in the number of teachers of a higher grade shows :-(1) That the facilities afforded by our High Schools for a higher education are made nse of. (2) That those entering the profession are disposel to seek the higher literary culture which a second-class certificate represents, and (3) That those possessing that higher culture are sought for by Boards of T'rustees. It must not be forgotten that, other things being equal, the best educated man or woman invariably makes the best teacher. There is still, however, a tendency on the part of some teachers to remain satisfied with any qualification which entitles them to conduct a Public School."

The Minister, in referring to the marked increase in the salarics of teachers during the past few years, says: "There is a considerable discrepancy still between the salaries paid to females as compared with males. Why should this be, when the services rendered are, in most cases, of equal value?"

The Public School Teachers of Ontario are, as a class, an influential body. They are popular, well-educated men and women, careful and painstaking, endowed with zeal and fnergy in promoting the great cause of education, having a fellow-feeling and sympathy with each other ; with a proper estimate of the dignity of their profession, and a desirability that it shall never be disgraced by word or deeds of theirs. It is not surprising, in such a large and influential body, many of its members rise to positions of prominent honor in Ontario. The Minister of Elucation at one of the Migh Schools, in a speech last month, said :-"The Ontario Assembly contained, perhaps, more teachers in proportion to its mombers than any other legislative body in the world, and men on both sides of the House were willing and able to aid and improve the educational system."

In my own experience I havo known Public School Teachers become leading statesmen, eminent divines, celebrated lawyers, and distinguished physicians. There is no
reasonable limit to the position to which they may aspire, and within their rath for the true admacement and government of their country; for althongh they may mot, like natives of the neighboring republic, aspire to become President, we have a proof that one of their co-workers lands one of the most prominent and important positions in the country, as Minister of Education.

The Legislature is most liberal in promoting the welfare of teachers; it provides freereducation for them at Normal Schools, Morlel Schools, and Training Jhstitutes, and also assists ly liheral grants towards supporting a Teachers' Institute in each county inspectoral division, having for its object the reading of papers and the discussing of matters that have a practical bearing on the daily work of the school room. The Director of Teachers' Institutes visits the Institutes, and takes part in the proceedings. by discussiug at least three suljects on the programme, and by delivering a public lecture. Every teacher, unless prevented by illness, must attend continuously the meetings, which last for two days.

## Departmental Regulations.-Accommodation for Puplls, School Furniture, Etc,

The trustees are required by law to provide sufficient accommolation for at least two-thirds of the population between five and twenty-one years.

The school site must be in a healthy locality, with proper drainage. The waterclosets for the sexes must be several feet apart, and proper care taken to sccure cleanliness, and to prevent unpleasant and unlealthy odors.

The school-house must have an additional room for every fifty persons. In each room there should be at least 250 cubic feet of air-space for each pmpil. Arraugements must be made for ventilation so as to secure a complete change of atmosphere three times every hour. There must be separate entrances and suitable cloak-rooms for boys and girls.

The desks and seats are usually so graduated in size that the pupils' feet may rest firmly upon the floor, and the backs of seats slope backward from the perpendicular to add to the comfort of the pupils.

Under the regulations, every school should be supplied with at least, Blackboards, $9-\mathrm{in}$. Globe, Maps of Canada, Ontario, World, the different Coutinents, Tablet Readir, Lessons, Numeral Frame, Dietionary, Gazetteer, etc.

These regulations are applicable, more especialiy to schools in rural districts, as the schools in cities, towns, and villages are usually well equipped with maps, apparatus, reference library, etc.

## Departmental Regulations.-Text-Books.

The programme of studies preseribed for use of Public Schools is as follows:-Reading and Literature, Spelling, Othography, and Orthoëpy Writing, Arithmetic, Drawing, Geography, Music, Grammar and Composition, History, and Olject Jeessons. Other subjects recommended to be to be taught are Hygiene, ineluding Temperance, Drill :ind Calisthenics, Moral and Religious Instruction, Reviews and Recitations, and Agriculture in Rural Schools.

The Department of Education has the authorization of the text-books used by the pupils; and recently, under the direction of the Minister of Education, an admirable set of readers adapted to the country has been published, also a set of Drawing Broks, Works on History, Hygiene, Scripture Readings, etc. Some of the other text-hooks used are by Canadian authors, and others reprints of English publications.

The advantages from a uniform set of text-books cannot be over-estimated. They are selected by a Central Committee of Examiners, all experienced, competent advisers. They are suitable to the youth of our comtry, and should a pupil remove from one part of the Province to another, the same set of books can be used; and, inoreover, there is no trmptation for interested persons to recommend publications from which they might reap a profit.

Drawing has only been made compulsory since July, 1885, but its inportance as a branch of education is already fully recognized. It is the written language of the eye, with an alphabet of only two letters-the straight line and the curve. It is especially the language of mechanies and workmen, and most valuable in the manufacturing progress of a country.

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## Departmental Regulations-Religioes Instruction.

Every school is opened with the Lord's Prayer, and elosed with reading portions of seripture taken from selections authorized for that purpose ly the Department, and must be read without comment or explanation, but no pupil is required to take part in the religious exereises against the wish of his parent or guardian.

The elergy of any denomination have the right to give religious instruction to the pupils of their own chureh in each school-house at least once a week.

It will thus be seen that everything in reference to religious exercises is left to the parents and guardians of the children, the Govermnent exereising no authority, but fuily recognizing and protecting the rights of conscience ann parental authority in all religious

## Compulsomy Attendance.

The parent or guardian of every child, not less than seven years nor more than thirteen years of age, is required by law to cause such child to attend a public school or some other school in which elementary instruction is given, for the period of 100 days in each sehool year, unless there be some reasonable excuse for his non-attendance.

The law is very explicit on the duty of guardians. It says :-"Any person who receives into his house a child ol any other person, under the age of thirteen years, and who is resident with him, or in his care or employment, shall be deemed thereby to be subjeet to the same duty with respect to the elementary education of such child during sueh residence, and shall be liable to be proceeded against as in the ease of a parent, if he should parent." perform his duty of causing such ebild to be edueated to the extent required of a

Children employed in factories are only corapelted to attend one-half of the whole time required by the Act, provided they have certificates from the School Inspectors that they have passed an examination prescribed by the Education Department.

As a rule, no compulsion for children to attend school is required, the parents and children themselves seem to appreciate the true value of education. The compulsory clauses in the School Act, however, shows the taxpayer, who is rated without his consent for school purposes for the public good, that ehildren are compelled to attend school.

## School Purposes.

The term "Separate School" applies to Protestant and colored persons as well as to Roman Catholies ; but this exception to the general public selool system is confined chietly to Roman Catholies, who desire to establish Separate Schools in localities where their supporters are sufficiently numerous to support one. The prineiple of the Schools is, that any Roman Catholie ratepayer may eleet to support a Separate School, and upon giving the prescribed notice he is exempted from the Public School rates. These Schools are governed by trustees, who are elected by the supporters of such Schools, and atre a corporation with powers similar to those of other school trustecs. The teachers are requared to possess proper certiticates of qualification, and the Schools share in the Legislative Grant in proportion to the attendance, and they are also subject to inspection by the Education Department, two Inspectors having been appointed for that purpose. In cave of any disagreement between the Separate or Public School corporations and the municipal bodies, such dispute is sulject to the arhitrament of the Minister of Education, with the right to appeal to the Lieutenant-Governor in Conneil.

Thero are 207 Roman Catholic separate Sehools in Ontario.

## Concluding Remabiks.

Every year's experience shows more fully that the Free Public School system in Ontario is founded on the true principle for the education and advancement the people. The Government, knowing that education has the effect of sharpening the perceptive, and strengthening the reasoning faculties, considers that the education of all the youth of the country is a national duty, to which every person should contribute according to the property he possesses, ant which is protected for him by the State.

Every facility is provided for the training of teachers. (The Times, September 21 st , says:-"Evidently very great care is bestowed on the traininy of teachers for the varions, classes of schools in Ontario. The examinations which they have to undergo are formid able and comprehensive, and for the higher grades quite as formidable as that of the London B. A., and far more varicd.") Every precaution is taken to specurn in them good moral character, as well as competent literary qualitications; aud tho result is that many $f$ the children of the poorer classes, by their intelligence, industry. and persevernnce, have becomo leading men in the professions, prominent merchants, ant holders of other positions of trust in the country.

It is true that it causes a kind of levelling process, as the children of the poor man sit side ly side and compete with the children of the rich man. It might be considered in some countries as partially breaking up the distinctions of class, but we find that it teaches self-respect, and all classes learn to know and respect each other.

The result of our education is that we have individual security, public peace, and that freedom of action consistent with rational liberty in a country which is rapidly increasing in wealth and prosperity.

Although far removed from the splendor of royaity and the influence of a court, we train our children to be law abiding. We are loyal subjects of our Qucen, and we love and venerate our mother country; not from antiquated prejodice, nor reluctantly tolerated from a sense of duty ; but, on the contrary, it is cherished in our affections, and supported by the freewill of a people whose love of order lias befn strengthened as their knowledge has increased. who value that Government which so ably affords security to life and property, and whose laws ensure the actual enjoyment of all that deserves to be dignitied with the name of freedom.

In conclusion, I may state that the Free Public School System of Ontario is generally acknowledged to be equal to any in the world. It has been imitated by other countries including some of the neighboring states and, at least, one colony in Australia. And in addition to this grand scheme for primary education, there are provisions for secondary and higher education, which are essentially free ; and the poor man's son, provided he has talent and energy, receives free education from the Public School to the University.

With a population less than $2,000,000$ we have upwards of 5,000 Public Schools nearly 200 Classical Schools, Colleges and Universities, and 150 Mechanics' Institutes and Art Schools, where adults can obtain a practical knowledge of subjects connected with their various trades and employments.

As stated in the public press, the goods exhibited in the Canadian section of the Exhibition show great advancement in the various manufactures; the workmanship is excellent, the designs are good, and there is ingenuity in construction, which can only be attributed to the practical education of the people.

I bave endeavored to show this during the past $f$ few months; I have also sent copies of a pamphlet relating to the Edueational System of Ontario, and a catalogue of nur exhibits to H. M. School Inspectors, Clerks of School Boards, and the members of the London school Board; and I shall be pleased, during the short time at my disposal, to give any further information, if required.
S. PASSMORE MAY, M.D., Commissioner of Eidrection Colonial Exhibition Building, London, November, 1886.

As very few persons in this country are familiar with the School Statistics of the United Kinglom, I take this opportunity of stating that in 1885 there were $29,91: 2$ Elementary Schools inspected, with accommodation for $6,734,423$ pupils. The actual attendance was $4,329,32.4$. Within the past twenty years the schonls have increased over fifty per cent. and school attendance over seventy-five per eent., although the population has only increased about twenty-five per cent. during the same period.
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 our ex . of the osal, toThe cost to the country for public education is very great, the sum submit ted on the Civil service estimates for 1887 is $823,876,625$. It is money well cxpended, however, for erime has diminished in proportion as public educhtion has increased. The mumber of committals for criminal offences in 1865 was 27,388 , in 188.5 the number was 18,500 .

It is worthy of notice here, that whilst free education costs the Province of chatario only abont fifty-seven cents per pupil, the momout for clucation, not free, paid by the (Govermment of the United Kingdom, is over 85 per pupil.

It will be seen from this report that every opportunity was taken to briug hefore the public the excellence of our educational system, and the agricultural and commercial adrantages we possess in this province.

I may remark, too, that I referred to this on diflerent occasions at public mertings, where I had the privilege of giving addresses, including the Guildhall, Lomion College. Training Colleges, Fublic Libraries, etc. onne of these mpetings were largely attentid. For instance, at the Guilhall some the sathds of persons were present at the presentation of the Queen's prizes, Science and A t Depmrtirnt. The Lord Mayor was in the chair, and Prince Henry of Battenburg gow his first vidress in public. On this oceasion referred to our Free Education, the infacere Industrial Drawing on maubactures, and the commercial progress, natural sisourees, limatology, etc., of this province. On the following day I received a letter from ef Irincipal of the Techical schools, thanking me for my attendance and address.

In conclusion, I cannot refrain from a knowledging my sincere thanks to Nir Charles Tupper, the Executive Commissioner for Canada, and Mr. C. C. Chipman, Accountant of the Canadian Commission, for their many acts of kindness, and the personal interest they always took in promoting and forwarding the interests of the exhibitors anel representatives of the Educational Court of Ontario.

The following Provinces, in addition to Ontario, sent educational appliances and pupils' work, which were exhibited in an annex adjoining one side of the Ontario Educational Court:

## Province of Quenec.

The educational exhibit of this Province was represented during the Exhibition by he Hon. (ideon Ouimet, Superintendent of Public lnstruction.

Their special catalogue shews that they had 164 collections of educational exhibits, which were classified as follows:-1. Department of Public Instruction, including Reports, School Acts, Text Books, etc. 2. Universities-Photographs and Books. 3. Classical Colleges-Photographic Views, Books, etc., from six Colleges. 4. Normal Schoolsspecimens of pupils' work, Text Books, etc. 5. Academies, Model Schools and Elementary S'hools-Photographs and pupils' work, including Writing Books, Daily Exercise Books, Needlework, Drawing Books, Map Drawing, etc., from eighty-five schools. 6. City of Montreal, lioman Catholic and Protestant Board of School Commissioners-Photographs and pupils' work, consisting of Writing Books, Excreise Books, Book-keeping, Map Drawing, Mead Drawing, Landscape Drawing, Painting on Satin, Needlework, Crotchetwork, ete., from sixty-four schools.

The pupils' work was chiefly exhibited in handsomely bound albums, the contents of which were greatly admired by those interested in education, containing as they did a great varicty of well executed exainples of the ordinary school work of the children.

The Commissioners publish the following as a preface to their catalogue :
"The Educational exhibit which we have prepared, does not adequately represent the state of education in the Province of Qnobec. The short time which our superior educational institutions and our elementary schools had to prepare for the great education al display has prevented many institutions from tring part. Several of ourscholastic institutions, which could have prepared excellent exhibits, finding themselves unprepared
and fearing that they might compromise their well-deserved reputation by a hurriedly prepared exhibit, have abstained from taking any part in the present display. Such as it is, our exhilit represents the regular work carried on in our clementary schools and in our institutions of superior education; and we venture to hope that, under the circumstances, these illustrations of the results of our educational system may meet with the approval of the specialists appointed to examine them."

The Council of Arts and Manufactures of the Province of Quebee, also exhibited a collection of drawings done in the class-room by pupils from fourteen to twenty-one years of age.

New Brunswick.
This exhibit was representer! by Mr. Ira Cornwall, ir. It consisted of :
School Worl: :--
Specimens of Print Seript Exercises, Writing, Maps, Industrial Drawing, Sewing and Knitting. (Arranged in bouud folios.)

## School Furniture:-

Desks and Seats, and Teacher's Desk.

## Text-boohis:-

One copy of each Text-book prescribed for use in the Schools of the Province.

## School Apparatus :-

One Set Drawing Models; one Set Blocks to illustrato Form ; one Set Natural History Series to illustrate Plant and Animal Life; Weights and Measures; Specimens of New Brunswick Woods and Minerals, as used for illustrative purposes; Crayons and B.B. Rubbers; Ball Frame ; Map of New Brunswick.

## School-houses:-

Photographs of School-houses and of Class-rooms ; Plans of School-houses.

## School System:-

Outline of School System ; Outline of Course of Instruction ; School Manuals.

## School Reports:-

Annual Reports; Blank forms for Inspectors' Reports; Blank Forms for 'Trustees' Returns and Teachers' Reports.

## School Registers, etc. :-

School Register and Cover ; School Licenses; Provincial School Drafts; County School Fund Drafts.

The Academy of Arts and Free Night School, St. John, New lirunswick, sent a collection of Freehand Drawings from Nature in Charcoal and Crayon.

> Nuva Scotia.

The Hon. Wm. Amnand represented this exhilit, which consisted of a collection of School Desks and a Teacher's Desk, me ufactured in Nova Scotia.

School Cabinet of Nova Scotia Minerals (arranged by Pupils of Pictou Academy).
Etomological Collection, in twenty-four caser, (Pictou Academy).
Case containing Prescribed Text-books.
Six Drawings of Prescribed Plans for School-houses.
Eight Photographic Views of Educational Buildings.

## APDENDIX.

## OTHEL COUNTRIES WHICH EXHIBITED.

In order to show the extent of the British possessions and how universally Her Majesty's subjects united to make known the greatness of the British Empire liy exhibiting the products, manufactures and educational appliances of their respective countries, I shall give a brief historical s':etch of each country from faets collected from authorities at the exhibition, and from their spocial reports, with short notices of their educational systems and exhibits.

The accompanying map is coloved (red) to show the geographical position of each of these countries.

AUS'RRALASLAN COLONIES.

## Australia.

Australia was originally a simple Crown Colony; the first settlement was made by the British Government at Sydney, in 1788. At prestnt Australia is divided into five Colonies; all on the mainland, viz.: New South Wales, Victoria, south Australia, Queensland and Western Australia.

Each of these Colonies is presided over by a Governor appointed by the British Crown, but with the exception of Western Australia otherwise self-governing.

## New South Wales.

New South Wales, the oldest Colony of Australia, was discovered by Capt. Cook in 1770. The first governor was appointed by the British Government in 1787, and the Colony of New South Wales was formally deelared to be founded in 1788.

In 1851 the south-western districts of New bouth Wales were formed into the Colony of Victoria, and in 1859 its northern districts into the Colony of Queensland.

It is bounded on the north by Queensland, on the west by Nouth Australia, on the south ly Victoria, and on the east by the Pacifie.

It ineludes an area of 309,175 square miles, and in 1886 the estimated population was 981,000 . Its ehief product is wool, which is exported to England. It was in this Colony that gold was first found in Australia, in 1851 . The aggregate value of the gold mines up to 1884 was $8176,807,750$. Coal is also fouml in ahundance; the aggregate value of coal mining up to 1884 , was $\$ 78,546,400$. Other minerals are also abundant in New South Wales; the aggregate mineral wealth of all kints up to 1884, being $83: 0,342,925$

New Soutlı Wales is rieh in educational institutions. Sylney, the principal city, has a population of 250,000 , and is the first town in Australia that was settled. There is a University, Denominational College, Crammar School, Sehool of Artr, Technieal, Industrial and Sanitary College and Museum, Natural Art Ciallery, Pree Public Library, l'ublie Schools, ete.

The Prublie Instruction Act which is administered ly a responsiblo Minister, eame into operation in 1880. The schools are entirely undenominational, and the attendanee of ehidren between the ages of six and fourteen years of age is compulsory. The sehool fee is 3 d ( 6 cents) per week per child, and the fees collected are paid into the treasury as revenue. Provision is mate for racuting children whose parents are unable to pay fees. Teachers are reognized as eivil servants, and paid ly salary out of the public funds. School buildings are erected wholly at the expenso of the Govermment.

Since 1861, Parliament has voted nearly $\$ 30,500,000$ for Primary schools. The annual expense for school sites, buildings, furniture, etc., averages over $33,500,000$.

In 1885 there were 2,046 State School in operation, viz.: 8 Hi , Schools, 26 superior Public Schools, 1,532 Public Schools, 294 Provincial Schools, 150 Half-time Schools, 50 House-to-house schools, under itinerant teachers, and 12 evening Public Schools. There are also two Training Schools for teachers. The total school population is nearly 280,000 , nearly a third of the entire population of the Colony.

## Educational kalitiot.

The greater part of their educational exhibit was from the Technical College, sydney ; it consisted of specimens representing the following classes :-1. Morlelling, Plaster Casts ; 2. Carpentry and Joining, practical ; 3. Masonry, arches, etc.; 4. Naval Architncture, models, etc.; 5. Plumber's ; 6. Art Class, drawings ; 7. Carriage Building, drawings; 8. Carpentry and Joining, theoretical ; 9. House Painting, graining and marbling; 10 . Art Decorations, ornaments; 11 Architecture, drawings.

A Geological Class Map was also exhibited by this College.
'rwelve Public Schools sent exhibits of pupils' work, consisting chiefly of rewing and fancy work, which was in great variety and well exceuted; the few specimens of writing and map drawing sent were not sufficient to judge accurately of the genernl work done in these branches.

The Surveyor General, the Government Astronomer and the Minister for Mines, sent several very finely executed maps and clarts for scientific purposes.

There were also private exhibits of drawing models and scientitic apparatus.

## Victoria.

This colony lies at the south-eastern stremity of the Australian continent ; its area is 88,198 square miles. Although the leasi cf the Australian colonies it is the most populous, having one million inhabitants. Victoria was first settled in 1833, hy an Englishman ; it then formed part of New South Wales, and was known as the Port Philip District. Melbourne its chief city, which now has a population of 325,000 , was founded in 1837 .

In 1851, Port Philip becume a separate colony, and was named "Victoria" in honoe of the young Queen. In this same year (1851) the discovery of gold gave the colony an impetus, which is said to have " upliited the colony in a night to the position of a nation and a power in the world, and advanced her destinios hundreds of years at one bound." Victoria was crowded with searchers for fortune from every quarter of the globe, in one year nearly 80,000 immigrants being added to the population of the colony.

The total value of gold raised in Victoria from 1851 to 1885 is estiniated at over $\$ 1,500,000,000$.

During this year (1851) the first Lieut-Governor was sworn in. Responsible government was not, however, introduced until 1855.

They have a system of State Education in Vistoria, the basis of which is that secular instruction shall be provided, without payinent, for children whose parents may be willing to accept of it, and that whether accepted or not, satisfictory evidence must be produced that all children between the ares of six ind fifteen are educated up to a given standard. The result is reported as very satisfactory. In 1881, of every 10,000 children of school age (between the age of six and fifteen), 9,481 could road, and 8,535 of them could write.

Schools of Mines have been established at Ballarat and Sandhurst, to which are attached museums, containing geological and technological specimens, models of mining machinery and mining plant, sections of mines, etc. There are 880 students in these two schools.

Schools of Design have also been nstablished at twonty-five other places in Victoria, for promoting technological and industrial education. There are over 2,800 pupils on the rolls of these schools. An exhibition of the pupils' work is held yearly in Melbourne and local exhibitions are held in other cities and towns.

3 (s. A.)

They have also a University, which, in 1880 , was thrown oper $\checkmark$ females, who are admitted to all its corporate privileges, except as regards the study of medicine.

In 1884, the number of students who matriculated was 173 , of whom nine were females.

## Educational Exhibit.

This colony had a small eaucational exhibit, but there was no attempt to make it a prominent feature in their section of the Exhibition.

The Minister of Education sent a small collection of specimens of pupils' work, Hotels of Schools, and Photographs, with an Excellent Map showing the whole of the state Sehools in the colony.

The Victorian Deaf and Dumb Institution sent specimen exercises on Written Language, Writing, Arithmetic, and Drawing, Photographic Views, Statistics, Reports, etc.

The Victorian Asylum and School for the Blind sent Baskets, Mats, Nets, Woolwork, etc., the work of the pupils, also Photographic Views of the Buildings and Pupils at Work.

Trinicy and Ormond Colleges sent photographs.
The Oberville School of Art sent examples of Sculpture, Drawing, and Painting in Oils, and Imitation Tapestry.

Privateexhibitors sent some Object Lessons and Philosophical Instruments, and the public departments exhilited Maps and Charts, including a raised Map of Victoria, showing exisung and proposed ines of railways.

The prpils' work exhibited was excellent, and it is to be regretted that a larger collection was not sent.

## South Australia.

This colony is, with the single exception of Western Australia, the largest of all the Australin colonies, stretching across the whole island continent from is th th north. The total area is 903,690 square miles. The population, according to $t^{\prime}$ intest official' record (1884), was 312,781 .

In 1831 Captain Sturt discovered the River Murray, which runs down inio South Australia, and empties itself into the Southern Ocean, but it was not until December, 1836, that the first Governor of South Australia took possession of the land in the name of the Sovercign of Great Britain.

Although gold is found in small quantities only, the copper mines of this colony have produced great mineral wealth.

The edur, ion of the people received legislative attention very early in its history. The first Act relating to education was passed in 1847. This was suspended in 1851 by an Act, the expressed object of which was to impart good secular instruction, based upon the Christian religion, apart from all theological and controversial differences on discipline and doctrines, and a Central Board of Education was established.

In 1875 an Act was passed which abolished the Central Board of Education, established a Council of Education ; attendance of children between the ages of seven and thirteen years was made compulsory, and fees were authorized to be charged.

In 1878 the Council was dissolved, and the administration of the Education Depertment transfereed to a " Minister Controlling Education," assisted by an Inspector Ge of Schools, with a staff of Inspectors and Teachers.

In 1884 there were 452 Public and Provisional Schools; 42,758 children reviי' ' instruction from 400 male and 600 fomale teachers. The total expenditure upor ed ${ }^{\text {- - ' ion }}$ (exclusive of buildings) was, in 1884 , over $\$ 500,000$.

A bout 390 schools have been crected since January 1st, 1876, at a cost of upwards of $\$ 2,000,000$.

Scholarships, exhibitions, and bursarics, are open to the pupils at public schools, with the advantage of education at the Adelaide University, or any approved European University. As an illustration of this, in 1878 , a scholar won an exhibition at one of the Model Schools: this entitled him to free education at Prince Alfred College (the semin-
ary selected by him), and in 1884 he won the South Australian Scholarship, which is worth $\$ 1,000$ per annum for four years.

In addition, the Education Department offers annually three University Seholarships (worth $\$ 250$ per annum for three years), whieh entitle the holders to education at the Adelaide University free of cost. Six exhibitions, for scholars at the puhlie schools, of the value of $\$ 100$ to $\$ 200$ each, are also available annually, and entitle the holders to free education at any of the colleges which they may select. Bursaries of the value of 860 are also offered by the department of girls.

## Educational Exhibit.

The Inspector General of Schools sent a smal' exhibit, consisting of Maps and Plans used in the Education Department, Two Maps of Australia. Set of Arithmetieal Diagrams, and Copies of Course of Instruction, Time Tables, Calendar, and Education Gazette.

The Superintendent of Poonindie Native Institution exlibited speeimens of writing done by native children, also a small cottage, picture frames, and brackets made of eones.

A private exhibitor sent an Educational Object Lesson, "The Gospel Ship," and some Maps and Diagrams were exhibited from different government departments.

## Queensland.

Queensland, comprising the north-eastern part of Australia, has an area of $668,2: 4$ square miles, and a poralation of about 300,000 . It is quite a new colony, only sixtytwo years ago ( 1825 ) a penal settlement was founded at the mouth of the river. In 1839 the last batch of convicts was landed there. Ten years later the first free immigrants arrived and settled down near Brisbane, the capital, which has now a population of 40,000.

In 1859 the colony of Queensland was proclaimed by Imperinl command, and since that time its progress has been very great. Immediately after its scpuration from New South Wales a system of National Education was inaugurated, it being eontended that as education progressed, crime would be lessened, and thus the colony would reap a direct advantage from the money devoted to ed ieational purposes. A Board of Education was appointed, and a Normal School, for th raining of teachers, was built in Brisbane, and Schools in towns and country distriets re built on a requisition of the residents, accompanied by an amount equal to about one-fifth of the estimated cost of the building. On these conditions, wherever there were twenty children above five years of age, a school was established, and a teacher supplied and paid by the board.

At first small fees were charged, but fees were abandoned in 1864.
In 1876, the Government undertook the entire management and control of the Schools, the Attorney-General was appointed Minister of Education, and since that time the Schools have increased at a remarkable rate. There are 425 State Schools, with 46,262 children on the rolls, and 1,161 teachers employed. About one-seventh of the population of the colony is under school instruction.

Every classified teacher is a civil servant appointed, transferred or promotel only by the Governor in Council.

## Educational Exhibit.

Thirty-five State Sehools sent exhibits of pupils' work, including Maps, Dietation, Drawing, Ornamental Penmanship, and Needlework, altogether nbout six hundred sneeimens, representing the ordinary work of the Sehools.

The Departments of Mines and Public Works, Railways, Post and Telegraph, and Public Lands, sent some very fine specimens of Maps, Charts, and Diagrams, relating to their various departments.

Physical Oharis and Maps were also sent by private exhititors.
In addition, the Reading Room in the lixhilition was supplied with tiles of about sixty nowsjapers and periodicals.

## Wistern Austrataa.

This colony embraces nearly one-third of the Australian continent. Its area is over $1,000,000$ square miles, with a population of about 35,000 , principally located withisi 110 miles of the sea coast.

It is the only one of the Australian group which is still a "Crown" Clony, that is to say a British dependency, where the otticials of the Government, as well as the Gowernor, are appointed by the British Government.

The clief products are Wool, Timber, Pearls and Pearl Shells, Lead, Copper, ete.
There are seventy four Government Schools, with $10 \leq$ teachers indi 3,052 pupils, in the colony. The aniount contributed by the Government for education in 1884 was nbout 850,000 , and the amount paid ly pupils about 37,000 .

The Education Act in force contains compulsory chauses, and the Commissioners claim that the standard attendanee, if not so high as in Victoria or Nev: Zcaland, is already on a level with that of New South Wrales, and slightly in advance of Tusnania; and as the country is now making rapid progress in other directions, it is nct likely the Government will permit her to fail brek i, the mattu of public education.

There was no exhibit of educati mah :qpiliances, but an excellent collection of District Maps, Photographs, and Oil and Wass C for Paintings.

## NEW ZEALAND.

New Zealand lies in the Pacific Oceun to the south-eastward of and at least one thousand miles from Australia. It consists of three islands and several small islets, the total ar is about 100,000 square miles, the estimated population in 1885 was 576,234 , exclusive of about 40,000 Maories.

Tasmen visited New Zealand in 1642 and found it peopled by the Maori race. The next European who visited the country was Capt. Cook, in 1760; the Maories, its aboriginal inhabitants, were at that time cannibals, devoid of religious belief, except confused notions of good and evil demons. Capt. Cook is said to have planted in the country the first germ of coloniztion. Notwithstanding this, for a number of years New Zealand was only known to the civilized world for the danger of its coasts and ferocity of its inhabitants.

In 18:4, the representatives of the English Church Missionary Society became the tirst Eiuropean residents. After several years, in which the country became morally contaminated from the influx of traders, run-away szilors andadventurers, the British government interfered, and subsequently, after negotiation with the native chiefs, assumed complete possession of the country.

The coustitution was that of Crown Colonies, and the Governor, except in so far as he was controlled by the Imperial Government, was almost despotic.

In 1853, a new constitution, based on the popular principle, came into force.
In 1863, the entire responsibility and control of the country was transferred from the Imperial to the Colonial Government, and the usage of responsible Government is now in full fore.
l'ublic schools are free, the cost being defrayed by an annual parliamentary vot. "' 'ee amount voted for free sclools in 1886 was about $\$ 17,000$. They have 987 public .. with 97,238 enrolled pupils and 2,447 teach ${ }^{n+}$.

There are also seventy-one native schon for the education of the Mac...... hich in 1884 cost the country over $\$ 67,000$.

Several Luropean sehools, aiso, receive subsidy from the Govermment fu. . of Mari pupils. The tatal number of Maori children receiving edueation in it ! was 2.929. Endowed Secondary Schools, Grammar and High Schools, and Endowei itwourcal Colleges hive alzo been established in various parts of the Colony. These are sin the most part affiliated to the University of New Zealand.

The University of New Zealand is purely an examining body. It is empowered by linyal Charter to confer degrees, but it has no teachers in its employment ; the teaching nart of the work is done by affiliated institutions.

## Educrational Exhibit.

The Education Department, Wellington, exhibited a swall collection of School Books, Reports and Pamphlets, and a private exhibitor sent some Drawing Books.

Maps were also exlibited by private individuals.
The Otago University sent a magniticent collection of Fish and Reptiles, stutled and in alcohol, also Skeletons disarticulated and mounted for teaching purposes.

The Canterbury Museum had an excellent exhibit of skeletons of extinct New Zealand Birds, including the Dinornis Maximus, also Maps, Drawings, etc.

## FIJI.

The Colony of Fiji is a group of islands in the South Pacific numbering over 200, of which eighty are inhabited. The total area is about 8,000 square miles, with a population of about 110,000 , of which about 2,000 are white.

The Fijian Archipelago was discovered by Tasman in 1643. About the year 1804 twenty-seven convicts escaped from New South Wales and settled among the islands. These desperadoes having firearms, were dreaded by the native savages, and might have obtained absolute goverument of the islands; but they lived only for self-indulgence and the gratification of vile passions, some of them being regarded as monsters even by the ferocious cannibals with whom they associated.

In 1858, King Thakombau offered to cede the sovereignty of the islands to Her Majesty on certain conditions, which were not accepted.

In 1871, Thakombau, with the assistance of some Europeans, formed a govermment for the whole group, and the first parliament met for the kingdom of Fiji. It was found that the system of government adopted was unsuited to the condition of the country, and the Assembly was dissolved in 1873.

In 1874, Thakombau re-assembled his chiefs, and made another offer of cession with conditions which were unacceptable to the Imperial Government. Sir Hercules Robinson, Governor of New South Wales, was deputed by the House of Lords to procced to Fiji, and the result of his negotiations was that the king and chiefs made a formal and unconditional cession to Her Majesty of the sovereignty of the islands.

The first Governor of the new dependency was appointed in 1875 . Contidence in the government has grown up and these erstwhile savages are now a law-abiding native community.

Both Common and High Schools have been provided for upon a similar basis to that adopted in the Australasian colonies. Common Schools have been established in the islands of Suva and Levuka under certified teachers, assisted by pupil teachers. The Inspector's latest report shows that the attendance is regular and the educational results fairly satisfactory.

For the uatives, the Wesleyan Mission have established day schools, at which about 42,000 children receive instruction. They lave also a native Industrial School, educating about 100 boys from the northern provinces. The school is under European superin tendence, assisted by Fijian tutors. In addition to scholastic subjects, instruction is given in agriculture, carpentering, boat *ilding, etc.

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\text { Educulional E. }{ }^{2}, b^{2} \cdot t .
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The native Industrial School exhibited a number of earpenters' tools, etc, manufactured by the pupils.

The Rev. James Culvert sent a collection of Books in the Fijian language, lllustrated Sacred Cards, Polynesian Gazette, printed on native cloth, etc., and several private indi-
viduals exhibited Photographs, Paintings, etc.

## CAPE OF GOOD HOPE.

This is the most important British colony in South Africa. Its total area, formerly only about 120,000 square miles of territory, is now about 226,000 square miles, with a lopulation of 340,000 whites aud 900,000 colored.

This headland was discovered by Bartholomew Diaz, a Portuguese navigator, in 1846, but no permanent settlement at the Cape was effected by the Portuguese. It was used for the next century and a-half as a port for their ships, and by those of England and

In 1620, a party of Englishmen landed and took possession in the name of James I. but nothing came of this attempt, and it was not until 1652 that the Dutch East India Company took possession of Table Bay.

It was occupied by the English from 1795 to 1803, restored to the Batavian government in the latter year, and re-occupied by the British in 1806, whose possession of the place was ratified by the congress of Vienna in 1815.

It is only within the last seventy years that English colonization has been freely and fairly encouraged in the country. It is now quite prosperous, its exports in 1884 amounting to $\$ 35,000,000$.

The colony now has 1,603 miles of railway open to traffic, and the total amount expended upon their construction and equipment was $\$ 73,000,000$. They have also telegraphic lines, and submarine connection with England.

So far back as 1837, the Secretary to the Cape Government wrote a memorandum on the state of its free schools and generally on the state of education in the colony. This gave rise to the appointment of a Superintendent-General of Education, and the establish-

In 1839 primary fre
were established. The teachers were paid by the schools with a fea of $\$ 20$ per annvas about the same time to provide fere paid by the government. Other schools were added

From that time the Governm the poorer children, chiefly of the colored race. Treasury, the establishment of schools throughout the cal in aiding by grants from the Government co-operates with exch se throughout the colony. At the present time the means of grants in aid from the section of the community in promoting education by elementary education acts include grabic revenue. The provisions of the higher and in the three grades of Public Scholants in aid of Universities, the half salaries of teachers District Boarding Schools. Caols, the half salaries of superintendents and teachers of scholars, aid towards the salaries of tion allowances towards the maintenance of indigent salaries of teachers of Day Schools teachers of District Mission Schools, and towards the allowances to native apprentices and boyg the aborigines and native tribes. Capitation in equipping schools with furniture, boys and girls in industrial institutions; assistance also tools for native workshops, ane, books, maps, blackboards, scientific apparatus, etc.; for training elementary teachers, and sewing materials where needle-work is taught; nid

In 1884 the colony had 1,004 soid for art schools. was also tive colleges, with 315 students of various classes, with 78,037 pupils ; there which is an examining body.

The amount expeud paid by the Govermment and the other half 1884 was about $\$ 1,000,000$, one-half being,

The annual cost for instruction half by local cflorts. cents to eighty cents per month in per pupil is $\$ 5.30$; the fees vary lrom thirty-five principal towns.

## Elucational Exhibit.

There was no exhibit from the Public Schools.
The Art School, Cape Town, sent pupils' work, consisting of Freeland Drawings, Machine Drawings, Building Construction, Sepia Paintings from casts, etc.

The Art School, Grahams' Town, contributed a good collection of Outline and Shading from the round, Oil and Water Color Paintings, etc.

The Art School, Port Elizabeth, sent Freehand Drawings from nature, Geometrical Drawings, Machine Drawings, Isometrical Projections, Building Oonstruction, Drawings from casts, Oil and Water Color Paintings, etc.

The Art School, Witenhage, exhibited Machine Drawings, etc.
In addition, there were excellent Drawings and Designs for Buildings, Maps and Diagrams, Paintings, etc., from private exhibitors.

## NATAL.

This colony is situated on the eastern side of South Africa, 800 miles beyond the Cape of Good Hope and facing the Indian Ocean, its area is 24,000 square miles; the total population is 423,000 , including 35,000 Europeans, 27,000 Indian coolies and 361,000 Zulu-Kafirs.

Natal was first occupied as a British possession in 1843. Sugar is grown along the coast; it was introduced in 1851, and at the present time they have about 29,000 acres with an annual produce of about 18,000 tons; tea and tobacco are also grown in large quantities; coal is found in great abundance; it has been calculated that the coal fields of the Klip River county will yield over 2,000,000,000 tons.

There are 173 miles of railroad in operation, owned and worked by the Colonial Government.

Provision has been made for a system of education for the colony and the maintenance of Government Public Schools. These Schools are under the control of the Council of Education, consisting of twelve members, five of whom are ex-officio members of the Executive Council ; the remainder are nominated by the Governor in Council. There is also connected with this Department a Superintendent of Education.

For Elementary Education there are four Model Primary and seven Primary Schools, distributed through the chief towns.

These Schools have an annual examination, on which depends capitation grants, payable to the teachers, as an incentive to good work, over and above their fixed salaries. There are also about forty Private Schools in receipt of Government grants, and subject to Government supervision.

For higher education there are two High Schools. Three Bursaries, each $\$ 200$, th the High Schools, for three years, are open each year to competition among boys in the colony. There is also an exhibition of $\$ 750$ per annum, tenable for four years, given annually, the holders to proceed to the United Kingdom for the term of the exhibition.

The amount voted by the Legislative Council for education in 1885 , was $\$ 135,000$. The fees paid by the pupils attending the Government Schools in 1885, amounted to about $\$ 16,000$, which is paid into the treasury as general revenue.

The fees at the Primary Schools range from twenty-five cents to one dollar per month, and these are reminted when occasion is shown. During the past year 607 pupils received free education $a^{2}$ thee Schools.

## Educational Exhibit.

The Council of Education exhibited illustrations of the Educational System in Natal. There was also $n n$ excellent Map of Natal, showing the positions of European Schools, and several Phot graphs of Primary and High Schools.

Ihe: Scotch Mission Training School at Pietermaritahurg exhibited a collection of pupils' work, done by native children, I ."h N , etc. also fexhibited by the colony, (icologinal, il rialical, and other Maps and Charts, were

## ST. HELENA.

This small dependency of the British Empire is 1,200 miles from the nearest point of the African mainlant. The whole Island is a huge mass of rock of volcanic origin, square miles. Population in 1881, 5,059.

This Island was discovered by the Portuguese in 1502 , but was abandoned by that nation in 1600. It then lecame a bone of contention between the Dutch and English, and was captured by Sir Richard Munden in 1673. It was then granted by charter to the English East India Company, who retained it until 1836, and subsequently transferred it to the Crown for $\$ 500,000$.

The chief historical interest attaching to St. Helena is derived from the fact that it was the scene of the captivity of the Emperor Napoleon during the last six years of his life, from 1815 to 1821 . He died there in 1821 , and his body was moved to Paris in

This Island was formerly well known as a port for honneward bound East Indiamen. hut has lost much of its commercial importance since the opening of the Suez Canal. Ith addition to the loss from the falling off in the visits of shipping, a terrible destruction was caused in 1840, through the introduction of the white ant in some Brazilian timber, out of a broken-up slaver, which intlicted a loss upon the colony of $\$ 350,000$.

James Town, the seat of Government, has a population of 2,500 .
The Commissioners say, in their report, that the great drawback to the prosperity of the Island is, doubtless, the want of efficient and organized labor. The "native," whose wants are easily supplied by a meal of fish and rice, is of a naturally indolent disposition, and not alive to the necessity of working for his daily bread.

There was no School Exhibit from St. Helena, but a large collection of Photographs, Maps, Plans, Water Color Paintings, was contributed by di erent exhibitors.

## ASCLNSION.

This small Island is 760 miles from St. Helena, and 900 mil from the west coast of Africa. Its area is thirty-eight square miles, with a populator of about 200.

It was discovered by Gallego, a Portugucse, in $15 n 1$ It wis garrisoned in 1815, hy a detachment from St. Helena, and subsequently by a "pa of marines. Durng the period of the suppression of the slave trade, it was the ad- $q$ ' 'ers of the South $A$ frican Squadron, and stores, barracks, batteries, etc., were br.

Gcorgetown, the only station, has a fort to protect the town. It is c irely under the adnire ${ }^{\top}$ ty, the Governor being a Captain of the Royal Navy.

The Island is visited by the sea turtles from Christmas to Midsummer, to deposit their eggs in the sand ; as many as fifty or sisty are frequently turned of a night, and then removed to ponds or tanks in the town. They weigh from 600 to 800 pounds, and are sold to the shipping for $\$ 1250$ each.

The climate is said to lie the dricist and most, salubrious in the world. There was no Educational Exhihit from this Islund, but they exhibited Views and
Photographs, and an Admiralty Chart.
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Views and

## TRISTAN D'ACUNHA GROUP'.

This group, of islands is in the South Atlantie, 1,300 miles from the Cape of Goorl Hope.

Tristan D'Acunha, like the other Atlantic islands, is of voleanie origin. It was discovered by D'Acunha, a Portuguese, in 1506 ; it is of circular ontline, in the slape of a truneated cone, rising to the height of 7,640 feet above the sea, with an extinet crater at the summit of the mountain. The diameter is about seven miles.

The Island was oecupied ly a detachment of artillery during the eaptivity of Napoleon, at St. Helena, and on their withdrawal in 1821, an artilleryman, two seamen, and four whalingmen, remained behind, and becaus the tounders of the present settlement.

In 1867, H.I..H. the Duke of Edinburgh, when C'aptain of the Cinlatea, visited this Island, and conferred the name of Edinburgh on the settlement.

The population of the colony in 1883 was ninety-three, luat this small community sustained a severe loss last year, no less than fifteen brave men losing their lives while endeavoring to assist a ship in distress.

Photographic \iews and Charts were exhibited from this Island.

## INACCESSIDLE ISLAND.

This Island, which is a great resort for sea-birds, is a high mass of roek, with a table summit nearly square, with sides a mile in length. The highest point is 1,840 feet above

Th atward lound Indiaman, Blenden Hall, was wrecked here in 1821, and the crewand sengers rescued and taken to Tristan D'Aeunha. Two German officers were also wrecked in 1871, and suffered great hardships until taken off by H. M. S. Clurllenger, in
1873 .

The ex itit from this Island consisted of specimens of rocks.

## NIGHTINGALE ISLANDS.

A group of three islands. The largest is one mile long and three-quarters of a nile wide, with two peaks, which rise about 1,000 feet above the sea.

The smaller islets, Stoltenhoff and Middle Jsle, are large roeks about If a mile in length, 325 and 150 feet in height. A zone of kelp extends a quarter of a mile from the east side of the islands; they are visited by seals and sea-elephants in large numhers.

Specimens of roek from these islands were exhibited.

## CEYLON.

The Island of Ceylon is situated south-east of the southern extremity of Hindustan. Its area is about 25,364 square miles, with a population of nearly $3,010,000$, lut the froportion of Europeans to natives is less than two per 1,000 . About $1,700,000$ of the popu-
lation are Buddhists.

This Island is of great historic interest. Sir E. Tennant, formerly Lient-Governor and $\mathrm{C}_{0}$ onial Seeretary, says : "There is no island in the world, Great Britain itself not excepted, that has attracted the attention of authors in so many distant ages, and so many different countries, as Ceylon ; there is no nation in ancient or modern times possessed of a language or literature the writers of whieh have not at mome time made it their
theme."

In the centre of the Island are found the ruins of Pollonnarnwa and Anuridhapura, the latter was the chosen eapital of King Panduk Abhaya, 437, B.C., and remained the eapital for twelve centuries. Historians write that the outer wall of this eity enelosed 250 square miles, and was completed in the first century of the Christian era.

It still contains interesting records in stone anl the sacred Bô tree. Major Forbes, in his "Eleven years in Ceylon," states than in the reign of King Devanampiya Tissa, 307, B. C., Anurithapura reecived the collar-bone of the Gautama Buddha, his heggingdish filled with relies and a branch of the Bô tree, under which he attained Buddahood."

This relic of 2,200 years ago still flourishes, and is believed to be the oldest living tree of which there is any authentic reeord. It is held sacred throughout the Buddhist world, and is the goal of many a long pilgrimage. Even the fallen leaves are treasured by the pilgrims, and carried to distant lands.

The Portuguese were the first European settlers in Ceylon. From early in the $16 t h$ to the middle of the 17 th senturies they held continuous possession. From 1656 to 1706 the Dutch governed the maritime provinces of the Island, the Central or Kandyan provinces remaining under their native rules. In 1796 the last remaining stroughold of the Dutch at Colombo capitulated to the English, and the Island beeame part of the British possessions in the eastern seas.

Colombo is now the capital, with a population of nearly 120,000 .
Ceylon is celebrated for its plumbago ; upwards of 240,000 persons are employed in mining and shipping plumbago. In 1882 upwards of $240,000 \mathrm{ewt}$. were exported. Over one-half of this quantity raised is exported to the United States for the manufacture of peneils, crucibles, ete.*

The manufacture of salt is a Government monopoly, and produces a profit, from $\$ 400,000$ to $\$ 500,000$ per annum.

The pearl fishing, though uncertain, is still, in favorable years, a valuable addition to the revenue. The same primitive system of gathering the oysters exists as in aneient times ; every oyster is gathered by the hand of the diver, no dredger or implement is nllowed to be used. The Government take as royalty two-thirds of the oysters thus sathered, which are sold by auction at the close of each days fishing. In the last suecessful fishery, the Government share realized about $\$ 300,000$.

At present the most important industry is planting coffee in the hill districts. In $1874-5$ the export of coffee was valued at $825,000,000$. Tea is also largely eultivated. Although the Singhalese are mainly an agriculturar race employed in tilling the soil, their exhibits of agricultural implements were of a very primitive style. The Singhalese plough of to day is a counterpart of the implement used two thousand years ago.

## Educational Exhibit.

The Department of Education exhibited Singhalese Maps of Ceylon, Europe and Asia, prepared for vernacular schools. The Department also publish books for the English, Anglo-Vernaeular and Vernaeular Schools.

A large number of Buddhist old books were exhibited. These are composed of leaves of a palm tree; the writing is effected with an iron stylus, and the leaf washed over with an equivalent for ink, which, when the rest of the leaf is cleaned, remains on the letters. The whole of the leaves are then pierced and strung together and bound with a board on each side.

The Government of Ceylon sent a series of large Kandyan Paintings, which were used as a frieze round the walls of the Court.

Private exhibitors also sent Paintings, Photographs, Botanical Drawings, etc.

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## MAURITIUS.

Mauritius, or Isle of Erance, is a beautiful and fertile island situated on the Indian Oeean. It is the largest British possession in the African seas. Its area, including the dependencies of Rodrigues, Seychelles, Amirante 1sles, Chagos, ete., is about 708 square miles, with a population of about 360,000 .

The island was taken by the British from the French in 1810. The greater part of the population consists of colored races, chiefly Hindu. They are largely engaged in the culture of coffee, sugar-cane, riee, etc.

Port Louis is the capital, with a population of about 70,000 .
It consists of alternate hills and valleys, the highest point being nearly 3,000 feet above the sea.

The Executive Committee sent a large collection of Maps, Photography, Butanieal Specimens, ete., but there was no educational exhibit.

## SEYCHELLES.

The Seyehelles or Mahe Archipelago, consists of 30 small isles with a population of alout 7,000 . These islands are situated to the north of Mauritius on the Indian Ocean.

Originally discovered by the Portuguese, they were, after occupation by the French, ceded to England in 1814, and now forin one of Her Majesty possessions. Although little known to fame, they are said to be abomdant in fertility and natural beauty.

The exhibit consisted chiefly of sketches of fruits, flowers and other objeets, and a variety of natural history specimens.

## STRAITS SETTLEMENTS AND PROTECTED MALAY STATES.

## Straits Settleyfnts.

The Colony of the Straits Settlement, as defined by letters patent under the Great Scal of the United Kingdom, dated the 17th of June, 1885, consists of the Island of Singapore, the Town and Provinee of Malacea, the Territory and Islands of Dindings, the Islands of Penang, Province Wellesley, and their dependeneies.

Singapore is situated at the extremity of the Malay Peninsula, and it contains an area of 206 square miles. It is the most important commercial station of this region. The town of Singapore, with a population of 139,200 , is now the seat of government.

Malacca is the largest as well as the oldest of the Straits Settlement. It has an area of 659 square miles. The town of Malacea has about 5,000 inhabitants. Malacea was ceded to England by a treaty with Holland in 1824, in exchange for Bencoolen, in Sumatra, with an agreement that Eugland would not form any settlements in Sumatra, nor the Netherlands in the Malay Peninsula.

The Dindings were ceded to the Colony by Treaty in 1874. The total area of these islands is about 200 square miles.

Penang was ceded to England in 1885 by the Rajah of Kedal,,-it was the seat of Governnent of the Straits Settloment until 1832 . The total area is 10,759 miles.

Wellestey was ceded to England by the Rajah in 1800, in order to enable the authorities to put down the prevailing piracy which played havoe amongst the European merchantmen. Its area is 207 square miles.

The total population of the settlements in 1881, was 423,834, the proportion of Europeans was about 3,000 , natives of India 12,000, and the remainder Malay and Chinese, about equally divided.

British intercourse has extended with this region for over 300 years. It was formerly in the possession of the Dutch, and subsequently from 1827 to 1867 was an Indian dependency. It was then transferred by Act of Parliament to the Colonial Office.

It is a Crown Colony. The Council is administered by a Governor appointed by the Crown for a term of six years.

There are English teaching schools in the settlements, some supported by Government, others by endowments and voluntary contributions.

In Singapore they have eight English teaching schools, and a special school for Ohinese boys. In Penang there are ten English teaching schools, and in Malacea five schools.

The attendance at these schools in 1884 was 4,098 ; the fees paid by pupils varying from 25 cents to one dollar per month.

Nalay veruacular education is provided throughout the Colony in schools supported from the public revenue, with the exception of a small fee of 4 cents per month for each pupil.

## Protected States.

ln 1874, the three Native States, Perak, Selangor and Shujai Ujong, were taken under protection by Great Britain. They are governed by their native rulers.acting with the advice and assistance of an otticer styled the British President, who is appointed by Her Majesty's Government, and is directly subject to the Governor of the Straits Settlements. Each state has its staff of European and native ofticers.

Perak has an area of 7,949 squaie miles, with a poputation of 118,000 persons.
$S$ elangor occupies an area of about 3,000 square miles. The population amomets to 46,568 persons.

Shujri Ujony has an area of 660 square miles, with a population of about 14,000 persons.

## Educational Exhibit.

The Free Schools at Penang exhibited Maps drawn by Chinese hoys.
Private exhibitors sent Malay-English and English-Malay books, and a large collection of publications printed in Singapore, Albums of Scenery, Photographs, etc.

The Ethnological department was fully represented by Models of Chinese Temples, and other buildings, Native Craft, Implements, etc., also a collection illustrating the daily life of the inhabitants of the Cocos, or Kieling Islands.

## HONG KONG.

The Ishand of Hong Kong is separated from the mainland of China by Victoria Harbour, Ly-se moon pass, and Tathong Channel. It has a circumference of 27 miles and an area of 30 square miles, with a population of about 160,000 , of which 130,000 are Chinese.

It was ceded to Great Britnin, together with the Iarbour and Islets in January, 1841, and the cession was contirmed by the Treaty of Nanking, in August, 1842. Hong Kong and its dependencies were erected into "the Colony of Hong Kong" by Letterspatent bearing date the 5th April, 1843.

The administration of the Colonies is at present in the hands of the Governor, with an Executive Council of six official members and a Legislative Council of six official and five unoficial members.

The chief town and centre of the Colonial Government is Victoria, situated on the north side ef the island. It has a magniticent harbour of 4 miles long and from 2 to 3 miles wide, of sutlicient depth for the largest vessels. There is excellent dock accommodation for the largest ships.

Hong Kong is in constant connection by means of steamers, with Europe, America and Australia, also witin India and the coast ports.

The Govermment supports a Central School, the building for which being inadequate for its wants, will shortly be replaced by a new building now in course of erection, to he callel Victoria College. In addition they have the Hong Kong Public School or st

Paul's College, under the direction of the Bishop of the Colony and a com
Josepl's College, under the direction of the Bishop of Acantho and the Christian Brethren. There are alsu schools supported by different missionary hodies, including mission vernacular schools for girls. In addition there are French, Italian and Spanish
Convents.

## Edrcational Exhibit.

The Inspector of schools in Hong Kong sent an exhibit consisting of educational books, photographs of students at work, school materials, and models of desks, chairs, ete., used by the pupils.

The Italian Convent and the French Convent, each exhibited collections of needlc. work done by Chinese children. Private exhibitors sent maps, photographs, ete., and there was a great variety of models illustrating the manners and customs of the peuple.

## BRITLSH NORTH bOINEO.

This is one of the latest additions to the large number of British Colonies distributed tirroughout the globe.

The territory of British North Borneo includes the whole northern portion of the great Island of Borneo, situated in the region of the Malay or East Indian Archipelago. The area of British North Borneo, including some small isles, is 31,000 square miles.

It was founded by the North Borneo Company, under a Royal Charter, beariug date the 1st November, 1881. The cession of territory by the Sultans of Brunei ant Suln, on conditions of the payment of an annual tribute, took place in December, 1877, and Tanuary, 1878. This company secured, as it is by a Royal Charter, has its possessions, which are now a part of the lritish Empire, proteeted by the British flag from all aggression or encroachment on the part of any alien or forrign power.

The Governuent is administered by a Governor, assisted by a Council and by a Colonial Secretary and President, and the mode of Goverument of a Britisla Crown Colony is adhered to as far as practicable.

The greater portion of British North Borneo is covered with dense forests, containing trees up to ten feet in dianeter and of great height, many of them heing over 100 feet to the first brancl. There are about 78 known kinds of forest trees; somm of these are very valuable, The woods are used for furniture, honse building, engineering, etc.; one
variety, Billian, is in etc., as its specific orravity is so great China and the straits Settlements, for wharf piles, and perfectly proof against the "Teredo' or sea wormater and is very hard and durable.

It is quite probable that the immense trade now di North America to China nud Australia, may be divertene in the exports of the woods of countries are only about 1,100 miles distant.

As the European population is very small, provision has not yet been made for education in this settlenent.

The exhilit consisted chiefly of natural products, including woods, rattans, gutta percha, indin rubber, vergetable tallow, gum, gold, eoal, etc.

## BRITISH GUIANA.

This Coleny is situated in the norlhenst of South America; its area is computel at 76,000 square miles.

The first colonists were the Duteh, whe settled on the Fomeron Coast in 1580. In 1781 the British captured all the p sssessions of Holland in South Amerien. They were sub)sequently surrendered to the French, regained by the Duteh, who in 1796 yielded their to the British, in whose hands they have remained, with the exception of a brief period. in 180\%3, up to the present time.

The population of British Gniana in 1885 was ahout 270,000 , exclusive of 900 troops in garrison and seamen in the forts.

The Ahoriginal Indians are scattered through the interior. The only dress an Indian usually wears is a strip of cotton bound tightly round their loins and secured by a cord tied round the waist, with a string of beads round his neck, and a crown made of bright feathers. The women are as scantily attired as the men, but wear more ornaments. Some of these Indians work upon the timber grants, but they are chiefly occupied in fishing, hunting, ctc. They are clever in constructing boats and canocs, specimens of which were to be seen at the exhibition.

Georgetown is the metropolis and chief port of British Guiana. It has beautiful pulblic buildings. law courts, Catholic cathedral, hospital, market, etc. ; it is also supplicd with gas, walrworks, tramways, and a railway. There are two newspapers published daily. There is also a Portnguese paper.

The Colony is divided into eighteen parishes, under the charge of the clergy of the Church of England or Church of Scotland. The total expenditure of the Colony in 1885, on account of the clergy and missionaries was over $\$ 100,000$.

About $\$ 125,000$ was expended for education. There are 177 schools receiving Government aid, including Church of England, Church of Scotland, Church of Rome, Wesleyan London Missionary, Congregational and Estate Schools. The principal school is Queen's College, which is a Government institution

There was no Educational Exhibit from this Colony, but private exhibitors sent a collection of maps, photographs, and water-color paintings. In addition the Commissioner had a very interesting Ethnological collection, consisting of weapons and other articles in use among the native Indians.

## WEST INDIES.

The numerous islands of this region are embraced under three divisions-the Greater Antilles, the Lesser Antilles, or Windward and Leeward Islands, and the Bahama Islands.

Combined the West Indies represent an area of 100,000 square miles, inhabited by 1,500,000 British subjects.

In order to illnstrate as thoroughly as possible the history of the colonies discovered by Colmmbus, in 1492, a number of pictures, historical relies, books and engravings, were exhibited on the West Indian gallory. In this collection we notice a series of oil paintings of the Kings and Queens of England who are connected with the history of the West Indies ; also ancient portraits of Columbus, and the Diego Ribero Map, loaned by the S. C'ongregration of Propaganda Fidei, Rome, by permission of His Holiness, I'ope Leo XIV. This map was executed by Diego Ribero in 1529 , and is reported to be the earliest complete map of the world in existence. It measures 7 feet by 3 feet, and is on parchment.

## Jamaica.

This ishand was discovered by Columbns in 1494. It was under Spanish rule until comquered by the English daring the administration of Oliver Oromwell.

The total area of Jamaica is about 4,200 square miles, and the population, according to the last census, was 580,000 . Of these are whites, 14,432 ; colored, 109,946 ; blacks, 44,186 , the remainder being Coolies and Ohinese.

Jamaica is divided into throe counties; Surrey to the east, Middlesex in the centre, and Cornwall to the west, The eastern part is mountainous, a range known as the Blue Mountains, varying in height from 5,000 to 6,000 feet above the level of the sea, traversing from east to west. The coasts contain numerous safe and excellent harbors, over thirty of which are capable of affording shelter to the largest vessels. The finest is Port Royal, or Kingston Harbor, 6 miles long ly 2 miles wide.
c of 900 troops ess an Indian red hy a cord made of bright aments. Some ed in fishing, of which were
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sh rule until n, according 46 ; blacks.

The principal towns are Kingston, with a population of 40,000 inhabitants, and Spanish Town, the seat of Government, population about 8,000 .

Prince William, Duke of Clarence, visited Jamaica in 1782, and was the first member of the Royal Family who ever landed on its shores. Since then H. R. H. Prince Alfred, Duke of Edinburgh, was entertained in 1861, and the two sons oit the Prince of

The most remarkable event that has happened during the present century in connection with this island is the emancipation of slaves in 1833.
tional character were ete., from the Women's Self Help Spublic buildings by the Jamaiea Institute ; etchings, private contributors.

## Trinidad.

Trinidad, discovered by Columbus in 1496, is the largest of the islands in the Carib. nean Sea known as the Lesser Antilles. The total area of the island is 1,754 square miles; population ly last census, (1851) was 153,128 .

Settled by the Spanish in 1583, Trinidad has been the scene of sanguinary conflict between them and the French, and the latter and the English, finally resting with the

Colonel (afterwards the famous Sir Thomas) Picton, was appointed the first English Governor. Trinidad was finally ceded to Great Britain by the Treaty of Amiens, but not without great opposition on the part of Napoleon, then First Consul, who sup, posed from its geographical position, it would command the trade of the great rivers of

During the first five years after its capture, over $\$ 1,000,000$ worth of artieles of Br ; tish manufaeture were sold annually by the merchants of Trinidad to the traders from Venezuela, and a far larger trade was carried on elandestinely, as is proved by the fact that Colonel Picton reported to the Secretary of State that Spanish launches annually carried away articles of British manufacture to the value of $\$ 8,000,000$; subsequently, producing colony.

Although the colony has always been immediately under the Crown, the Commissioner states that remnants of the old Spanish law still remain; names of places and estates are Spanish still, the leading residents bear French and Spanish names, and the

The capital capital includes a complete French circle even now. Port of San Fernando, whieh is connected population of 32,000 . Trinidad has also the

Photograph views of publie buildings, ete., were exhibited, also oil and water-color paintings, and a collection of 235 specimens of woods with English, French, Spanish and scientific names attached.

## Barbados.

Barbados is the most windward of the Caribbean Islands; its total area is 160 square miles, with a total population of 171,860 -whites, 16,054 ; coloured, 155,806 . First owned by the Portugese at an unknown" date; it was named by them "Los Barbatos," from the number of bearded fig-trees or banyans which were found growing

This is one of the oldest British colonies, in the year 1605 the "Olive," an Finglish vessel, touched at the island and landed some men, who inscribed on a troe "James, King of England, and of this island."

James J. made agrant of this island to the Farl of Marlborough, mat the first Eng. lish Covernor was appointed in 1625. The island has never been savered from England. The principal town and port is Bridgetown, witl about 21,000 inhabitants.

The chicf product of the island is sugar. At first the sugar-cane was only enltivated for the purpose of brewing a refreshing drink. In 1640 a Dutehman from Brazil taught
the science of allowing the cane to ripen and of boiling the juice. At the same time the planters learnt to distil rum, called at first "kill-devil."

Ont of 106,470 acres, an area of 100,000 acres is now devoted to canes, the remainder being taken up with roads, buildings, etc.

The colony may now be described as possessing representative institutions, but the Crown has a veto on legislature, ard retains the appointment and control ol public othicers. The Government consists of a Governor, Executive Council, and a Legislative Council, appointed by the Queen, and a House of Assembly having twenty-four members eleeted anmually on the basis of a very low franchise.

There is a large number of Elementary Schnels on the island, supported by school fees and Government aid. Also many Higher schools, endowed and aided by the state, all of the Church of England. There are also Moravian and Wesleyan schools. The Codrington College, founded in the year 17!0, is connected with the University of Durham, and its students are eligible for all the degrees.

Barbados is the cnly place in the West Inclies where a university elucation can be olitained.

Some paintings and photographs were exhibited, but no educational appliances.

## THE WINDWARD ISLA:

The Windward Islands includes the islands of Grenada, St. Lucia, St. Vincent, and Tobago, containing an aggregate of 622 square miles. They are presided over by a Governor, or Chief, who resides in Grenada, the seat of Government, the other islands having a resident Administrator. Each island has its separate legislature, laws, and tariff.

## Grinada.

This island is situated in the Crribboan Sea. It was discovered by Columbus in 1498, and was inhabited by a monnle of war-like habits called Caribs. It is about 21 miles in length, and 12 in breadth, with a population of 46,125 . In 1650 the Island was taken possession of by Du Parquet, a Frenchman, who eventually got rid of the natives; after several battles thoir extermination was eflected ly driving the last remmant of the Caribs, about fifty, into the srit. The place from which they threw themselves into the sen was called Le Horne des Sauteurs (the Hole of the Leapers), a name it has retained to the present day. Du Parquet transferred possession of the island to the Count de Cerillite, in 1656 , for 30,000 crowns. Subsequently it was sold to the French West Indian Company, whose charter being abolished in 1674, it became vested in the Crown of France.

In 1762 Grenada surrendered on capitulation to Great Britain, and was ceded to that power by the Treaty of Paris in 1763. It was recaptured by the French in 1799, and restored to the British Govemament at the general pacification in 1783.

The present form of local Government in Grenada is that known as the Crown Colony system. The Governor, who is appointed by the Queen, is Govemor-in-Chief of the other islands composing the Windward Group.

The chice produce of the island is cocoa.
The principal town is St . feorge, with a populntion of about 4,000 . It was originally built by the lrench, who named it Port Royal. It has a large bay, which is estimated to be ahle to afford shelter to 1,000 ships of 400 tons each.

Bducation was formerly much neglecied, but of late years they have a good system of Elementary schools, which is working with satistaction. In 1885 a Grammar School was established liy some private persons which has since been endowed ly the Govern ment, and is said to promise great results.

There was no educational exhihit from Grenada.

## St. Vincent.

St. Vincent is the most English of the group of the Windward Islands ; it has an area of about 140 square miles. The capital of the island is Kingstown, with about 6,000 inhabitants.

St. Vincent was not fimally conferred to England till 1795. In the early part of the 18 th century the French and English began to treat it as neutral, both disliking, more or less, the task of dealing with the Caribs. It is one of the two remaining islands, the other being Dominica, where the last traces of the Caribs, or old savages of the West Indies, remain. There are 190 Carils and half Caribs in St. Vincent; they are now a well-hehaved race, their old character for ferocity and treachery having been tamed down by the mareh of eivilization.

S't. Vincent formerly exported coffee, cocoa, indigo, and tobacco, but the cultivation f sugar gradnally superseded that of other products.

St. Vincent is celehrated for its arrowroot.
There was no school exhibit, but excellent models and ethnographical collections representative of the island were exhibited.

## Tobago.

Tohago is sitiated about 75 miles from Grenada, and 20 miles from Trinidad. Its total area is 114 square miles.

Tobago was visited by British navigators in 1580, when the English flag was first planted on the island ; it was then uninhabited. In 1625 some Englishmen from Barbidos attempted to form a settlement, but most of them were killed by the Indians who then oceupied the island. The history of this island has been a very eventful one.

It has been on different occasions a possession of the Dutch, French, and English, and several sanguinary battles have taken place for its conquest. Eventually it fell into the hands of the English, and by the Treaty of Paris in 1762 was surrendered to England. In 1764 it became a legally constituted colony, and the first Lieut.-Governor was appointed.

In 1778 an armament was fitted out by the American States, then in their early days of independence, having for its oljeect the conquest of Tobago. A short engagement ensued, in which the British were successful.

In 1781 Tobago was conquered by the French; in 1793 it was re-taken by the British. By the Treaty of Amiens in 1802 it was surrendered to the French. In 1803 war having broken out again between Engiand and France, Tobago became once more a bone of contention. A British naval and military force invaded the island, and the French Govemor capitulated on condition that his garrison should be allowed to return to France. From this period Tobago has remained in the indisputed possession of the English, having been ceded to fireat Britain in 1814 by the Treaty of Paris.

Tobago has made very little progress, and the population has not increased 4,000 during thirty years.

They depend cpom one mail a month for communication with the outside world, and hove no cable comection with other comtries. Out of 73,313 acres which it contains, only about 10,000 are :nde coltivation; some of the best land in the colony is allowed to lie unproductive fo" the wat of ronds to the iuterior of the island.

They had no Edunation! Exhilhit.

## St. Lucia.

St. Lucia, cwenty-five miles to the north-east of St. Vincent, hins a total area of 243 square miles, with a popalation of over 40,000 . The island is almost eutirely covered with high mountains, among which is the Soufficere, a volcano in occasional activity.

The first attempt at colonization was by some English settleps in 1639; iti the folfowing year the Curibs massacred many of them and drove the rest away. The French next took possession of the island; in 1663 it was cuptured by the Britishand was ceded to the French in 1607.

At the Peace of Paris, in 1763, the Eırl of Chatham, by the advice of Admiral Roduey, refused to cede it to Erance, and on the renewal of hostilities, it was one of the first points of attack, and fell once more to Great Britain, but was restored to France at time has continued under British rule.

The chief staple of the ish rule.
tivation of cocon, tobaccos and spices.
The capital is Oastries, with about 4,550 inhabitants.
They have fifteen elementary schools distributed among the ten towns and villages of the island. These schools are of two classes; those managed by the Roman Catholics and they each managed by the Trustees of the Mico Charity, which are undenominational :

The Convents in Costries number of pupils.
There was no educational exhibit from St. Lacia.

## THE LEEWARD ISLANDS.

The Leeward Islands are the most northerly of the groups which constitute the Lesser Antilles.

Politically, they are a federation, that is to say, an aggregation of independent governments and legistatures, which, for certain purposes, have delegated their powers to one central and partially supreme government.

## Antigua.

Antigua has an area of 108 square miles; the population in 1881 was $3 \pm, 964$. possession of the Spanish, French Columbus in 1493 . It was at various times in the attacks from che Caribs.

Antigua is the seat of the general government of the Leeward Islands. It has a local government administered by the Governor of the Leeward Islands, assisted by an Execunominees of the Orown, and tomposed of twenty-four members, twelve of whom are

The capital is St. John's.
The chief product is sug. colferred advantages that cannot is said that the introduction of the steam plough has lain waste are being re-claimed and brought into cultivation.

## Educationnl Exhilit.

Pupils' work from Cedar Hall Moravian School. Samples of Needlework from Lehanon Moravian School, Map of West Indies, collection of Books, old Antigua Newspapers, etc.

## St. Ohristopher and Nevis.

This presidency is composed of two islands, divided by a strait from two to three miles wide.

Nevis was united to St. Christopher in 1883.
St. Christopher, commonly known as St.
an area of 68 square miles with about 2,000 inhabitanes nearly west of Antigua, it has.
This island was discovered by Columbus in lants
Caribs. A settlement was founded in 1623 in 1493 ; it was then densely crowled with colony of the English and French settlements in the Chistopher is believed to be the mother

In 1627 the English and Fromeh aments in the Caribbean Sea.
the Frenel took entire possession of the island.
restored to the French in 1697 , again captured by the British in 1702 , and finally ceded to the British Crown by the Peace of Utrecht in 1713. Subsequently the island beeame part of the general government of the Leeward Islands.

The capital is Basseterre, the seat of government, with a population of about 7,500 .
There are 18,507 acres of land under cultivation; the chief products are sugar, coffee and cocoa; from 1878 to 1882 they exported $1,114,269$ barrels (of 100 pounds) sugar, $2,22 \pm, 723$ gallons of molasses, and 287,284 gallons of rum. They have also three large salt marshes which produce about 14,000 pounds of salt annually.

As there are no harbors in St. Kitts or Nevis, the produce has to be conveyed to the shipping places in cattle waggons and carts drawn by mules and horses.

Nevis lies immediately to the south-east of St. Christopher ; its area is about fifty square miles, it formerly had a population of 20,000 , which is now reduced toless than
12,000

It was settled by the English in 1625 and became one of the chief slave markets of the West Indies. The emancipation of the slaves had a most crushing effect on Nevis! and caused a complete collapse of credit. It is said that the condition of the day. At the presiserable in the extreme, and his wages scarcely averaged ten eents a are wealthy, and financially rers arn sixty-six cents per day. The owners of estates India Islands. Its principal product is suganks amongst the most prosperous of West

It is of historical interest $a_{3}$ the place wh many years of his life.

The chief town is Charlestown.
There was no educational exhibit from these islands, but a very fair collection of Pottery, Vases made from wood, Shell work, Bead work, Caribimplements, and what was of considerable interest, the Register of St. John's, Nevis, containing a record of the marriage of Horatio Nelson and Mrs. Nisbet, on Mareh 1lth, 1787.

## Dominica.

This is one of the largest of the West India Islands; it contains 291 square miles. The total population at the census of 1881 was 28,211 , of whom 27,204 were natives of the island. There were 309 Caribs, of whom 173 were considered to be actual Caribs by descent, without any admixture of negro blood.

Its mountains are next in height to those of Jamaica, but even to the top they are densely clothed with foliage. It is said that from peak to shore the island is a mass of virgin soil and unopened forest.

Dominica, was granted to the Earl of Carlisle in 1627 ; by the treaty signed at Aix-laChapelle in 1748 , it was stipulated between the English and French that Dominica should remain neutral. In 1776 it became by conquest a dependency of England. Commissioners were sent out lor the purpose of surveying and selling the lands capable of cultiv-

In 1805 the French landed at Roseau, the principal town, which was aceidently set on fire, and the Governor was obliged to capitulate, paying the enemy $\$ 60,000$ to quit. Since this period the island has not known war.

Only 20,000 acres are under cultivation. There remain at least 140,000 acres avail. able for the cultivation of tropical and sub-tropical plants.

The principal products are sugar, cocoa, lime-juice and fruit. Within the past few years an export trade to New York has been established in oranges, which grow almost wild throughout the island.

Dominica is not in a llourishing condition; its trade is small, finances at a low ebb, and houses and roads in a bad condition.

Although there are forests containing valuable woods for building and other purposes, they are only exported in swall quantities.

It has been recommeuded that Mer Majesty's Government assist the colonists in constructing roads through the island, so as to open up the interior for the cultivation of

There was no school exhibit, but there were collections of Models, ancient Caribs Implements, photographs of Scenery, etc.

## Montserrat.

This island is situated about twenty-six miles south-east of Antigua, its area is about thirty-five square miles, population 11,000 .

It was diseovered by Columbus in 1493, and settled by the English in 1632, but the French took it in 1664. It was restored to England in 1668, when it was granted by clarter a constitution of its own, with a Legislative Council and Honse of Assembly. It capitulated to the French in $1: 82$, but was again restored to England in 1784, in whose possession it has since remained.

Under the Federal Act, Montserrat is a Presidency, forming part of the colony of the Leeward Islands. The President is the Resident District Magistrate and a Conmissioner of the Supreme Conrt. "The Courts of Queen's Bench and Common Pleas are merged into "The Supreme Court" with its three judges going on circuit, and holding the court alternately in each island two or three times a year.

The island consists of a series of rocky hills, with fertile valleys between. The principal product is sugar, but of late years the growth of lime trees and the manufacture of lime-juice has given Montserrat a better known position in commerce.

The population is rapidly increasing, which is attributed to the salubrity of the climate, and to the govermment provisions of medical attendance and medicines free for all children of laborers under ten years, and all old persons over sixty.

The Commissioner says: "A very wide systen of education has also been granted to the children of laborers since emancipation, embracing one in eight of the population from 1837 to 1856 , and one in eleven since the new Acts came into operation, by which grants in aid of education have been made from the public purse, and have reached in some years to five per cent. of the entire revenue. An enquiry into the working of these Acts whereby the cost of education per head has beea almost quadrupled, has recently been made by a Govermment Commissioner, the result being that education has been proved to have advanced under them, but they stand condemned in the matters of ex.
penditure."

The principal town in this island is Plymouth.
There was no educr onal exhibit.

## Virgin Islands.

The Virgin Islands consist of a cluster of rocks to the westward of Porto Rico Those of them which belong to Great Britain are Tortola, Virgin Gorda and Anegada The total area is about fifty square miles, with 5,500 inhabitants.

Tortola has an area of twenty-six square miles, consisting entirely of hills, which rise about 1,600 feet above the sea. Roadtown is the capital of the group.

Virgin Gorda is about ten square miles in extent, chiefly hilly and barren in its eastern part.

Anegada is a low-lying coast island, with an area of about fourteen square miles.
For purposes of administration, the group has for a century belonged to the Leeward Islands, having its own legislature.

In 1867, in fearful hurricane destroyed about two-thirds of the houses, including the churches, school-houses, etc. In 1871, the islands again sutlered from a hurricane, but not so severely. These islands are not in a prosperous condition.

There was no school exhibit.

## BRITISH HONDURAS.

British Monduras, or Belize, is the only British dependency in the Southern portion of North America. It is bounded on the north by Yucatan, on the east by the Bav of Honduras, on the south by Guatemala, and on the west by a straight line drawn from the
rapids of Gracias a Dir, in the river Sarstoon, to Garbutt's Falls, on the river Belize, and thence northward tc rie Mexican frontier. Total area, 7,562 square miles.

The coast was discovered by Columbus in 1502 . The settlement was originally called Belize. In 1638, some Englishmen were shipwreeked and settled here.

So far back as 1671 it was considered a place of inportance, as the Governor of Jamaica reported to the King that, "it increased His Majesty's customs and the mational commerce more than any of His Majesty's colonies." This is accounted for by the fact that logwood, which was then its staple prodnct, sold for 8500 per ton ; it is now sold so low as $\$ 10$ to $\$ 15$ per ton.

In 1763, a treaty was entered into with Spain, notwithstanding which several battles took place during the next twenty-five years between the English and Spaniards. In 1798, it became English by right of conquest.

Although one of the older settlements, it is one of the youngest colonies. It was not made a colony until 1862, when a Lientenant-Governor was appointed, under the Governor in Chief at Jamaica.

In 1879, a Governor was appointed. The form of Government is now that of a Crown colony, in which the Crown has the entire control of legislation, while the administration is carried on by officers under control of the Home Govermment.

The industries of this colony are wood-cutting, growing and manufacturing sugar, cultivation of coffee, tobacco, fruit, etc. The average export is $3,000,000$ feet of mahogany, and 17,000 tons of logwood. The cultivation of fruit for the American market is now carried on in consequence of ste:m communication having been estrblished with New Orleans. The capital is Belize.

The schools in the colony are generally denominational, established and superintended by the clergy of some religious body. They have one Church of England, one Presbyterian, seven Loman Catholie, thirteen Wesleyan, one Baptist, and two private, schools.

Teachers are granted certificates according to their merits, and receive Government aid under certain conditions.

There was no educational display, but good collections of natural history specimens, photographs, etc., were exhibited.

## THE BAHAMAS.

The Bahamas consist of an aggregation of twenty-nine islands, 661 bays, and 2,387 small islets or reefs, which stretel from the northern coast of St. Domingo, to the eastern coast of Florida, n distance of over 600 miles. The principal island is New Providence, which contains the capital, Yassan, with a population of 13,000 , and is twenty-seven miles long and seven miles wide. The other principal islands are :-Grand Bahama, Eler hera, Andros, Alaco, Long Island, San Salvador, Rum Bay, Imaqua, Exumn, Rag, d Island, Crooked Island, Berry [sland and Harbor Island.

The population, according to the last statistical report, is 44,000 , of whom 11,000 were white, and the remainder descendants of liberated Africans.

The Bahamas were discovered by Columbus in 1492 . They were inhabited by a hospitable people of the Caribee tribe who believed in a God-a great spirit-and in a future state of reward and punishment. A few years later the followers of Columbus, who had settled in Hispaniola, needed hands to work their mines, and invented a diabolical plat to induce the natives of the Bahamas to aceompany them to Mispaniola, They were told that if they would embark noon the Spanish ship and go with them, ere a day and night were passed they would embrace their departed friends, and dwell with them eternally. About 50,000 natives left the island and died in torment, being overworked, scourged and starved by their fervirius task masters.

In 1512, the Bahamas were visited by lonce de Lom, who went there in search of the fountain of etermi youth. The isle ads remained almost uninhabited for nearly a century, although they still continued to ho Spanish property, having been bestowed, with the whole of the new world, upon Ferdinand and Isabella by Pope Alexander VI.

In 1578, Queen Elizabeth bestowed on Sir Humphrey (iilbert all lauds und eor.atri that he might discover, that wore not already tnken possession of by some Christian and friendly power. As Spain was not a friendly power, sir Gilbert annexed these islands. subsequently, repeated attacks were made by the Spaniards. The first British Ciovemor was appointed in 1670 .

The present Government is based on the British constitution. They have a Ciovernor, Exeentive Couneil of nine members, a Legislative Couneil of nine members appointed by the Crown, and a House of Assembly of twenty-nine members.

The principal exports are sponges, turtle, coral and shells.
They are now well supplied with public schools, also an art school, reading-room and library, seientifie societies, ete.

In 1861, the census gave 8,506 as able to read and write, out of a total population of 35,287 . This is less than twenty-five per cent., but they say it is the reverse now as there is scarcely a child over seven years of age who eannot read or write.

## Educational Exhibit.

Carved ornaments from the Nassau Sehool of Art, collection of Natural History, ete.

## WEST AFRIOAN SETTLEMENTS

These settlements consist of Sierra Leone and Gamoia. By an order in council, 26th January, 1876, they were united into one Government, to be called the West African settlement.

## critita Leone.

Sierra Leone is a small settlmnont at the mouth of the Rokelle or Sierra Leone river. It has an area of 468 square miles, with a population of over 37,000 , of whom only 129 are white. The climate is very deadiy to European residents. It was ceded to Great Britain in 1787 by the native chiefs, and was made a residence for freed slaves from the United States and West Indies. A large island called Sherboro was added to it in 1862 ,, when slavery was abolished.

The settlement also includes the Isles de Los; and by treaty 1876, Her Majesty has the right to collect customs duties along the coast between Sierra Leone and Sherboro.

The government is administered by a Governor and Executive Council, and a Le. lative Council of five official and four non-official members.

The principal exports are cocoa-nuts, gums, hides, india rubber, ctc.
The principal town and seat of Government is Freetown.
There was no educational exhibit, but the native industries garments, decorative gold and ivory work, etc., showed pxcell ins, including embroidered siderable talent in artistic decoration.

## Gambia.

The settlement of Gambia lies 500 miles north of Sierra Leone. It has an area of twenty-one square miles, and population of 14,190 .

It was made a British colony in 1588 , when Queen Elizabeth granted a patent to some English merchants. The slave trade was extensively carried on until emancipation.

The River Gambia empties into the Atlantic. At the mouth of the river is Bathurs the prineipal town. There are three other pusts or trading stations along the banks of the river, viz., British Combo, Barra, and MeCarthy's Island.

This settlement is now under the Government of Sierra Leone.
The trade is chietly in exporting hides, rice, timber, gold-dust, ivory, etc. .

## Educational Exhibit.

There was a collection of educational looks in tho native language, consisting of grammars, catechisms, dictionaries, etc. They also exhibited some leather work ormamented with excellent geometrical designs, carvings in wood, and natural history specimens. Amongst the natural products were the Verach seeds, which are used by the natives as candles, one nut being placed after another in such a manner that the flame is transmitted
from seed to seed so as from seed to seed so as to give an uninterrupted light for a considerable period.

## THE GOLD COAS' JLONY.

The name Gold Coast is given to that portion of the shores of the Gulf of Guinen be. tween the rivers Asini and Volta. It has a total area of 16,620 square miles, with a of 520,000 .
The Gold Coast has been occupied as a British settlement since 1672, when the Royal African Company was formed, which built several forts along the coast. These forts were transferred to the Crown in 1821.

This was soon followed by the first Ashanti war, and on January 24th, 1824, the Governor, Sir Charles McCarthy, was defeated and slain, and his head carried to Coom. assie. This was ended by a victory over the Ashantis near Accra, in 1827.

After this the country was again placea in the hands of a mercantile hody, which continued until the second Ashanti war in 1863.

These events were followed by a re-arrangement of possessions between the Enylish and the Dutch, which oceasioned so much trouble to the latter power, that, in 1871 , Holland abandoned to Great Britain all its rights on the Coast. This convention not being approved of by the King of Ashanti, he invaded the British Protectorate in 1873, and so Wolseley, who third and last Ashanti war. Troops were sent out under Sir Garnet

After this captured Coomassie on the 4th February, 1874. united under one constitutiements on the Gold Coast and at Lagos were by Charter year, when Lagos has again been formold Coast Colony, which continued until the present

There was no Educational Exhihit separate colony.
rics, gold and silver oraanents, etc, if, but the general exhibit, consisting of textile fabledge of artistic desiun. This ec., of native workmanship, showed a considerable knowthe Ashantis to the British Goxninit included the gold ornaments which were paid by of the war in $187 \%$ alse the Golden Fetish a portion of the indemnity claimed at the close of Ashanti in 1881 as a tokeu of peace and submission.

## LAGOS.

Lagos, or Niger Territory, is situated on the Bight of Benin. This colony includes Badagry on the west, and adjoining Dahomey; Lagos Island, lying among Lagoons in the centre ; and Palma and Leckie on the east. The population in 1881 was 75,270 , (only
94

Lagos was formerly the headquarters of the slave trade, and was ceded to Great Britain in 1861, by King Docemo, who received a pension of $\$ 5,000$ per annum until his death, which took place in 1885. At first the settlements of Lagos were formed into a separate Government. In 1866 they were amalganated with the Were formed into a ments, under the Government of Sierra Leone. In 1874 they were amalgamated with Gold Coast Colony, and in 1886 were separated from the Gold Coast, with a constitution of their own.

The chief exports are palm oil, indigo, ivory, cotton, etc.


## IMAGE EVALUATION TEST TARGET (MT-3)



Photographic
Sciences
Corporation


## Educational Eivhihit.

There were no exhibits from schools, but several of the general exhibits were real art examples. A collection of incised and repousse brass utensils showed great beauty of design; some ivory tusks were artistically ornamented, and the textile fabrics, ineluding weaving and embroidery, were beautifully ormamented. A collection of photographs was included in their exhilits, also two illuminated Korans and a Mahometan MS., which is a good example of early illuminative art.

## MALTA.

Malta is situated in the very centre of the Mediterranean, ahout 58 miles from Sicily and about 180 from the mainland of Africa. Its area is 95 square miles, with a popula-

Malta is of great historical interest; the Phonicians settled here B. C. 1519. It was subsequently under the Carthaginians and Romans, and was granted by the Emperor Charles V., early in the 16 th century, to the Order of the Knights of St. Johnof Jerusalem. The Kinights of Malta held possession of this island for more than three centuries, until the final dispersion of the Order.

During the past century the spirit of British industry began to show its power by erecting public works and increasing the productive energy of the colony.

The principal products are cotton, potatoes, corn, fruit, and honey. In its manufactures are three specialties, viz., stone work, lace, and jewellory.

An Art School, recently established in Valetta, the chief town, has been the means of introducing modern designs in lace work, so that this trade has now become a most important branch of manufacture, cmploying 4,500 women and girls, with a revenue of about $\$ 250,000$ per minum.

There are 173 public and private schools, colleges and ecelesiastical institutes in Malta. The mumber of pupils attending the schools show a marked and continual increase. In 1842 there were only 3,833 pupils; in 1881 the number had increased to 12,390, exclusive of adults who attended evening and Sunday School classes.

## Educational Ewhibit.

The Orphan Schools at Floriann and Cospicua exhibited specimens of inlaying and fret work in wood ind ivory. The Sisters of the Good Shepherd sent examples of Maltese lace, point lace, embroideries, etc., and private exhibitors sent specimens of booklinding and typography, also sacred and secular music.

## CYPRUS.

Cyprus is the most easterly island in the Mediterranean; its arca is 3,723 square mile's, with a population of 186,173, sub-divided as follows --Greek Chucch, 137,631; Mohammedan, 45,458; various religions, 3,084.

Cyprus is of great historical antiquity, and is referred to in the Book of Genesis under the nume of "Kittim." It was conquered by Thothmes III. of Egypt, about B.C. 1600, and became subject to Assyria B.C. 725. It was annexed to the Roman Empire B.C. 57. It was the birth-place of Barnabas the Apostle, and was ruled by him and St. Paul in the carly days of the Christian Church.

In uncient times Cyprus is reported to have had a population of $3,000,000$. In 1191 Richard Cour de Lion, Figy of England, when on his way to the Holy Land, conquered
the island and sold it to the Kights Templars for a sum erual to $81,600,000$. In $15-1$
Cyprus was conquered by the Turks, and remained a part of the Ottom:n Empire until 187t, when it was ceded by the Sultan to Quern Victoria, In consideration of an annual payment equivalent to the surplus revenues which it had yielded to the Ottoman treasury in the preceding five years. Conseruently the island of Cyprus is burdened annually with a payment due to the Sullime Porte which is estimated at $\$ 464,000$. As the excess British fiovernment. The products although it ranks amonust the one prineipal sources of revenue. Their \& din, tive system of threshiag*, which is the world, is clepreciated in value from thr defecgrain, when brought from the field is same as was ollowed in patriarchal times. The piece of wood, having smail pieces of slineat on a hevel piece of hard ground, and a flat it. In this process small stones are detached from the ${ }^{*}$, !ower surface, is drawn over size as the grain; no ordinary fanning machine can separate the, ind of about the same Considerabie improvery lanning naehme can separate them.
island since the British took possession in 1878 made in the genemal condition of the This island his for many centuries suffered ing the past four years $\$ 335,000$ uns sufered severely from the ravages of locusts. Dur-Acministration-Cyprus is admin expended in reducing their numbers. missioner, assisted by a Lerus is administered under the Colonial oftice by a High Compointed by the Crown, and 12 are electecil, somposed of 18 members, 6 of whom are ap-

Education is now in a progressected by the people.
000 . The number of schools in operatate. The grant for education in 1885 was $\$ 15$, Catholic, 1 Armenian, and 1 Jewish. In addition there are in seloch. houses.

## Edncational Exhibit.

Their exhibit ineluded some excellent physical and other maps and diagrams, pictures and photogr phs, otheial reports, Turkish books, collections of zoology and ethography, ete.

## t'ALKLAND islands.

The Falkland Islands, consisting of the cast and west Falkland, and about 100 other smaller islands, are situated in the South Atlantic Ocean ; aren abont 7,600 square miles; population, 1,553.

These islands were discovered by Davis in 1592. In 1763 they wero taken possession of by France. Subsequently they were held by the Spaniarils until 1771, when they were for a time given up to Great Britain. In 1820 the Republic of Buenos Ayres established a settlement on these islands, whiel was destroyed by the Americans in 1831. In 1833 they were taken possession of by the British Government for the protection of the whale fishery.

The Govermment is administered by a Govemor, aided ly an Exceutive and Legishative Council, the memhers of both councils being appointed ly the Crown.

Stunkey is the chief town and seat of Gowrmment.
Wild cattle and horses are found in large numbers exports consist of hides, horns, hoofs, bones and tallow.

With the exeeption of a photograph their exhilit consisted of natural products.

[^2]
## THE EMPIRE OF INDIA.

India is the central and n.ost important peninsula of Southern Asia. It has an ares of $1,500,000$ square miles, with a population of about $250,000,000$.

From the tinue of the expedition of Alexander the Great to the Punjab, in the year 330, down to 1600 , settlements in India have heen established at different periods by Mahometans, Tartars, Portuguese, Dutch, French, and English.

British India is about three-fifths of this vast country. The remainder is divieled between different states, which are more or less dependent upon British authority. The British Empire in India commenced with the incorporation of the English East India Company, in 1600 . This company existed for two and a-half centuries, having all the provinces of British India under its rule until the mutiny of 1857.

In 1858, at a grand Durbar held at Allahabad, Lord Canning announced that the Queen of Eng!and had assumed the entire Government of India. Ir. 1877, at another more nagnificent Durbar, held by Lord Lytton, at Delhi, and attended by all the great feudatory princes and chiefs, Her Majesty was proclaimed Empress of India.

Nearly a million square miles of territory, with a population ot about 200,000,000, are now under British administration.

The last possession in Inclia annexed by England was Upper Burmah, an area of about 132,000 square miles, with a population of from $3,000,000$ to $4,000,000$. War was declared by King Theebaw, in November, 1885. The King was captured at Mandalay during the same month, and the following proclamation was issued on 1st January, 1886 , by the Viceroy and Govemor-General of India.
"By command of the Queen-Empress, it is herely notified that the territories formerly governed by King Theebaw, will no longer be under his rule, but become part of Her Majesty's dominions, and will, during Her Majesty's pleasure, be administered by such officers as the Viceroy and Governor-General of India $r \cdots$ from time to time appoint.

## India is governed as follows :-

 i1) 

Dufferin."
Ajmere, Berar, Coorg, Andaman Islands, (Port Blair), under the Viceroy as Gov-ernor-General, who is Governor of the whole of India; Bengal (Lieutenant-Governor); N. W. Provinces and Ondh (Lieutenant-Governor); Punjab (Lieutenant-Ginvernor); Central Provinces (Chief Commissioner) ; British Burmah (Chief Commissioner) ; Assam (Chief Commissioner) ; Madras (Governor) ; Bombay (Governor) ; Burmah (annexed 1886.)

The Lieutenant-Governors, Chief Commissioners, etc., are appointed by the Viceroy, subject to the approval of the Crown.

The trade of India is of vast importance ; the total exports and imports amount together to over $\$ 750,000,000$ annually.

The Govermment of India took a great interest in the Colonial and Indian Exhibition. At the first meeting of the Commissioners, in March, 1885, the Earl of Kimberley, Secretary of State for India, said, "There is, perhaps, nothing more desirable for India, than that its products and industries should be well.known in this country, although we have much more to learn from them than to teach them. Their beautiful manufactures, which they have produced for so many ages, have proved that there is a knowledge of many branches of art, which it would be a thousand pities should be diminished under our rule."

The collections were made with the assistance of the Goveruments of Iresidencies and Provinces, and of the Rulers of native States, and formed three divisions. 1. The Art ware Courts. II. The Econamic Court. III. The Administrative Court.

The Art exhibits were divided with reference to locality, and not with reference to elassification; this was done for the pupose of showing the character of the Art manufactures in the different Provinces of India.

I'wo sections the whole length of the Main Bxhibition Building were occupied with these exhibits, and a very ingenious p.an was adopted for showing one of their surviving branches of decorative art. It is the eustom, even at the present day, for men of wealth to decorate their houses, and those of the gods they worship, with carvings in wood and stone. Each of the Provinces had one or more separate alcoves in which to - hibit their foorls. The fronts of these alcoves consisted of carved screens. raised on wiches, thus forming double façades the entire length of the building.

## I.-ART-WARE OOURTS.

The Art-ware Courts are entered through a carved gateway, sent by His Highness the Maharajah of Jeypore. The gateway is surmounted by a drum-house, such as are usually found over the entrances to royal residences or temples, in which musicians play. In the kiosk on the top were arranged figures representing musicians with their instruments.

## Rajputana Court.

Twenty states forming the agency known by this name, under the Governor-General, exhibited in this Court. 'The Rajputana States represents an area of 130,000 square miles, with a population of ten millions. They stretch from the India agency to Sindh,

The Jeypore screon in art talent of Indian the native that as great a variety of patterns should be eupploys issued to the wood-carvers were, purely Indian. The men draw rough outline employed as possible, the ornaments to be carver does what is right in his own eyes, subith a pencil or even the graver, and each

The Commissioner remarks theyes, subject to the approval of the master workman. most a tive of the Rajputana States. The city of Jeypore is in all matters of art the the enlightened Rajah, has endenvoured to improve the of Art, under the patronage of attending to details. so as to correct the liabit been hended down from their forefathers."

In this Court were specimens of gold a glazed pottery, and textile fabrics. In and silver plate, lacquered-ware, inlaid work, lion of articles in brass, copper, and mixed

## Central India Court.

This is a numerous group of States also placed under the charge of the GovernorGeneral,

The area is 75,000 square miles, with a population of over nine : illions.
The principal sereen in this Court is intended to illustrate Bud ! inst and Hindoo sculpture, as found in Central India. The collection included stone-carving, jewellery, ancient and modern arns, lacquer-work, textile fabrics and embroideries.

## Bombay Couet.

This Presidency has an area of 124,134 square miles, and a population of sixteen and a-quarter millions. The native states add to these totals 73,000 square miles, and seven millions of inhalitants. Besides these, the State of Baroda, which contains 8,570 square miles, and a population of $2,185,000$, was represented.

The design for the screen in this Court was made by the Superintendent of the lombay School of Art. In the centre isle of the chief India Court was the Baroda PigeonHouse; an admirably carved structurn, which from its lofty position, was used by visitors
as " point at which friends missing each other in the crowds might meet during the exhibition. This collection embraced wood carving, inlaid work, pottery, metal work, lacquer-ed-ware, horn work, ivory work, and gold and silver work, etc. Repoussi work in silver is a specialty in this Province.

## Bengal, Courif.

The Bensal Territory, governed by the Licutenant-Governor of Bengal, includes Bengal proper, Behar, Orissa, and Chota Nagpur, containing marea of 150,588 square miles (exclusive of sonderbands), and a population of $66,691,546$ - nearly one-thind of the population of British India. In addition, the mater states in comection with bengal have an area ef 36,664 square miles, and a population of nearly thirty five millions.

The screens in this Court were intended to illustrate ly means of pelpier muche aastings, the styles of architecture of Hindoo and Mohammedan buildings in Bongal proper: The northern screen represents the Temple of Krishma, built between 1704 and 172.2 . The entire surface of this building is covered with terra-cotta reliefs, representing figure subjects taken from the daily life of the people. Casts, made in a mixture of papier mache and plaster of Paris, were made from those reliefs, and being coloured to mateh the originals, gave a good representation of the general effect of the ancient temple.

The collection included carving, seulpture and elay models, jewellery, inlaid work, lacquered-wares, textile fabries, etc.; also specimens of carving in wood and repoussé eopper electro-plated panels after Ilindoo ornamental designs, from the Calcutta Govern-
ment School of Art.

## Nepal Court.

Nepal stretches from the southern ranges of the Himalayas, twenty miles into the "plain," and 700 miles along the Northern Inclia frontier.

The area is alout 54,000 square miles, and the population is supposed to be about two millions.

The Art-ware of this little-known territory was represented with examples of the special arts and industries which belong almost exclusively to the Newars, whom the Ghurkhas conquered about 1768.

In this Court was an illustration of one of the degrading customs of this country, which is not open to European tourists; it was a saddle used in the households of wealthy persons. These saddles are strapped on the backs of servants for carrying their masters and mistresses up or down stairs, or from room to room.

## Nortif-West Provinces and Oudi Court.

These $\mathrm{Pr}^{\prime}$ vinces and Oudh, forming together the upper portion of the great valley of the Ganges, have an area of 106,111 square miles, with a population of forty-four millions.

The seat of Government has been transferred from Agra to Alliahabad.
One of the sereens in this Court had a row of pillars from Agra, inlaid with precious stones, and presented by the Govermment of India to the national collection at South Kensington.

In this Court the general exhihits were similar to the preceding, but amongst the textile manufactures might be noticed a peculiarity not seen in thit other Courts. The weavers interweave at the time of manufacture any design that may be sugrested to them. Verses and sentences are most common, and these include passages from the Koran and Vedas, and others from Dr. Watts' songs and hymns, etc.

## The Punjab Court.

This Province, including the territory surrounding Delhi, has an area of 106,632 syuare miles, and a population of nearly nineteen millions. Thme are also 39 native states in connection with the Province, comprising an area of 36,000 square miles and two million inhabitants.

In addition to the specimens of carving, jewellery, etc., this Court contained fumiture, and excellent examples of textiles, ineluding cotton and woollen fabries, silks, and embroideries.

## Kiasimir Court.

The State of Kashmir extends from the plains of the Punjab across the central range of the ITimalayas, towards Chinese Tartary and Tibet. The valley of Kashmir forms but a small portion of the whole area, which is estimated at 810,000 square miles, with a population of $1,500,000$. The Maharajah presents annually, by way of trilute to his Suzeran, 1 horse, 12 goats, and three pairs of the celebrated Kashmir shawls,

In this Court are specimens of Kashnir papier machi work, carving, textiles, etc. Kashmir shawls were also exhibited, but it is said that this manufacture is dying out. The revenne from this source was formerly from $82,000,000$ to $83,000,000$ per amum, but withn the past ten years the demand has decreased so much that it is stated that the art of weaving the finest shawls will probably be cxtinct in fifteen or twenty years, unless the Govermment takes steps to preserve the trade.

## Central Provinces Court.

The Central Provinces, of which Nagpur is the headquarters, have an area of about 85,000 square miles, with a population of about $10,000,000$. There are also fifteen mative states, total area 29,000 square miles, with a population of nearly $2,000,000$.

This Court had exhibits of wood, and stone carving, jewellery, textile fibrics, silk, etc.

## Assam Count.

The Province of Assam ineludes the Upper lirahmaputra Valley, or Assam Proper. The area is computed at 46,000 square miles, total population about $5,000,000$.

Assam is chiefly famous for its tea plantations. The art ware exhibits were not numerous in this Court.

## Burmall Colrt,

British Burmah has an area of 87,220 square miles; before the recent annexation, its
ation was $3,736,771$. population was $3,736,77 \mathrm{l}$.

This Court contained a large collection of art work in wood and metals, textiles, etc.

## Madras Courit.

Madras has an area of 139,900 square miles, with a population of $30,688,500$. The city of Madras, the third greatest in India, is entirely of English origin, and dates from the building of the British factory in 1639 .

The screen for this Court was designed by the Superintendent of the Madras School of Art, and executed under his direction by Madras carpenters and carvers.

The Madras School of Art exhibited a candlestick and a lota in solid silver, made in the school; a collection of water vessels of brass, ornamented with silver and copper tlowers; a carved window and native doorway, the work of one of the pupils, and a large variety of specimens of glazed and unglazed pottery, altogether the work of the school. The forms and colors of the old Madurra pottery are carefully followed. girls.

Embroideries and laces were also exhibited by the Hobart School of Mahommedan

## Hyderadsd Court.

Hyderabad, or the Dominion of the Nizam, has an area of 81,807 square mikes, and a population of nearly $10,000,000$. The Nizam is the chicf Mahommedan native ruler, and a descendant of the Mighal Nizam-ul-Mulkh, (Regulator of the Empire).

The principal exhibits in this Court were manufactures of the ormanent ware of Bidan, which consisted of over one hundred different articles used for domestic purposes. The Commissioners say, "No dowry is considered complete among the better class of Mahommedans unless a complete set of bulri ware, from bed-legs to a spittoon, is included. The high prices often render it necessary for the father of a family to begin his collection years before his claughter is marriageable."

## Mysore and Coorg Court.

Mysore and Coorg are continuous Hill States. Mysore is a native state ruled over by a descendant of the Hindoo chieftain from whom Hyder Ali usurped it. The total area is over 25,000 square miles, with a population of over $4,000,000$.

Coorg is under the direct administration of the Governor-General. Its area is 1,600 square miles, with a population of about 180,000 .

The exhibits in this Court consisted of sculpture, lacquer-ware, jewellery and textile fabrics.

## THE ECONOMIC, OR IMPERIAL COURT.

This Court contained the raw products and rough manufactures which illustrate the resonrces of India, also minerals and ores, and geological maps, and models of Bengal farmers' homesteads and agricultural implements.

## THE ADMINISTRATIVE COURT.

This Court included 1, Department of Revenue and Agriculture ; 2, Department of Finance and Commerce; 3, Home Department, including Education; 4, Public Works Department; 5, Legislative Department; 6, Foreign Department ; 7, Military and Marine Department.

## Educational Exhibit.

The Home Department exhibited illustrations of the means and appliances enuployed in the schools under their jurisdiction. A model of an indigenous school in Bombay was also exhibited.

In 1881, there were under instruction in India $2,879,571 \mathrm{males}$, and 155,268 females; out of the entire population only $7,646,712$ males $2,0,571$ males, and 155,268 females; write. The number given in the statistics for 1881 whi, 217,171,284.

In 1882-3, the number of schools inspected was 111,237 , with $2,790,061$ pupils.

## THE IMFERIAL INSTITUTE.

The proposition to establish a permanent institute representing the arts, manufactures and comacree of the colonies and India, has been under discussion in Eiggland for several years.

In 1874-5, the Chambers of Commerce and the Associated Chambers of Commerce of the United Kingdom, memoralized Her Majesty's Government on the sulject of establishing un Imperial Museum.

In 1876, the Times fully discussed this question, giving an estimated cost of site, cost of buildings and cost of maintenance. That year was considered to be opportume, as the Centennial Exhibition was being held, it being supposed that arrangements might be made at its close for transferring the colonial exhibits from Philadelphia to the Imperial
Museum.

The amount proposed to be raised was $\$ 2,000,000$ for site and buildings; in addition, the estimates for maintenance amounted to $\$ 100,000$ per annum. The promoters of the scheme were of opinion that this expenditure should be shared equally between Eingland,
he colonies. difficulty in raising one-half publicly debated, it was considered that there would lee no as regarded England, the question arosed expenditure from India and the colonies, but money for a museum, as they were thene whether it was advisable to spend so much of $81,760,000$, and, in addition, then erecting the Natural History Museum, at a cost institutes, amounted to over $\$ 1,000,000$ per for maintenance of museums and kindred

There is no doubt ther the with in 1876, was beeause the Governa reason the Imperial Museum was not proceeded After the close of the Paris Exhibition in not vote the necessary funds. project, but from various reasons they fell through.

The present seems to be a very fiting through. the success of the Colonial and Indian Exhibithe establishment of such an Institution; Queen, were no doubt sufficient inducenentsion, and the approaching Jubilee of the to take a personal interest in endeavoringts for His Royal Highness the Prince of Wales purpose the Prince addressed the follow to establish an Imperial Institute, and for that

> the Lord Mayor of London:-

## M. rlborough House. <br> Pall-Mall, S.W., Sept. 13.

Dear Lond Mayor,-My attention has been frequently called to the general anxiuty leign.

It appears to me that no more suitable memorial could be suggested than an Institute which should represent the Arts, Manufactures and Commerce of the Qeeen's Colonial and Indian S. would illustrate the prould, it seems to me, be singularly appropriate to the occasion, for it Indinn Dominions, while it would record year by year Her Majesty's reign in the Colonial and - Empire in the arts

It would thus be deeply interesting to Her Majesty's subjects, both within and beyond these islands, and would tend to stimulate omigration to those British territories where it is rebonds which unite the Empire

It would be the Empire.
Colonial and Indian subjects.
That public attention has proved by the remarkable suceess when forcibly directed to these questions is sufticiently South Kensington, and I confidently ant is attending the Colonial and Indian Exhibition at more important collections, which have so pate that arrangements may be made wherely the the disposal of the Institution.

I hatre much satisfaction in adhessing this letter to your lordship as Chief Magistrate of the capital of the Empire, and to invite your co-operation in the formation of this laperin?

Should your hordship and India, as the memorial of Her Majesty's Inbilee by her subjects. Honse, I wouhl suggest that the contributions pat, mid be willing to open a fund at the Mansinn soweregn would be asked to nominate, be muler the permanent presideney of the Heir wond further suggest that the institution should

> I remin, dear Lurd Maym; Yours truly,

## The Right Honorable the Lord Mayor. <br> ALBERT EDWARD P.

In reply to this communication, the Lord Mayor replied as follows :1 The Maxsion Honse,
Sin,-I have the honor to acknowlelge the rewe of 13th inst, and, in reply, to express the great perejpt of your Royal Highens's letter of the operation and aid in the formation of the po persure it will afford me to give the heartiest coas the memorial of Her Majesty's. Jubilee by her subjuerial Institute of the Colonies and India

Your Royal Highness truly states by her subjects.
mamer the appoaching jubilee of Her Menera anxiety is felt to commemmrate in some special desire to give expression in a suitable and if veneration, and loyalty which the Queen's subjects in all werpuate way to the deep attachment, for a Sovereign whose long and illustrious reignects in all parts of her vast dominions entertain blessings to her people, and been rendered memorabeen proluctive, under Providence, of many prosperity developed throughont the Empire. Ditlicult as it may be to signalize in a
ally emphasized at the approaeh of the Juhilee of Her way the feelinge thieh are thus naturproposal which your Royal Highness indicates, of Her Majesty's reign, I am convinced that the be considered singularly appropriate.

It will, therefore, give me much
receipt of contributions, as suggested by your Royal Highness.
I have the honor to renntin, Sir,
Your Royal Highness' most dutifnl and greatest respect,
(Signed), JOHN STAPLES, Lord Mayor.
His Royal Highness the Prince of Wales, K.G.
So far as commemorating the jubilee of Her Majesty's reign is concerned, the proposal of His Royal Highness met with the approval of all classes, but England made very little response in contributing funds, although the colonies were quite willing to do so.

The British press discussed the scheme very fully, and while they all agreed on the desirability of founding an institute which, in addition to commemorating Her Majesty's jubilee, would also show the immense growth of the British Empire, they recommended subscriptions should be ast should be decided upon, and the trustees appointed before representative of the Empire; that Some persons argued that the Institute should be made feeling which has not always been the case with a genuine representation of the colonial

It was also rumored the the support of an institnte which would manufaeturers were not disposed to contribute to of various branches of manufacture in compopposed to their interests, by the introduction

This gave rise to the appointment of a method for conducting and Imperial Institu Royal Commission, to report on the best Britain should also be represented in the Imperial Commission recommended that Great who contribute towards a public enterprise serial Institute. This is only fair, for those derived therefrom.
:Is Chiof Magistrate ion of this Imperiar so by her sulbjects. frum th the Mamsime of trustees, whom the it institution should

EDWARD P.
E.C., Sept. 17.
ness's letter of the e the heartiest coColonies and India
ate in some special ure, be a universal deep attachment, nimions entertuin uvidence, of may in evilization and
dh are thens naturmrinced that the ur influence, will
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servant,
Lord Mayor.
orned, the proand made very ag to do so. agreed on the Her Mijesty's - recommended pointed before hould he made of the eolonial eontrilute to 3 introduction
on the best led that Great fair, for those antages to be

The present proposition is, that the foundation stone of an Imperial Institute shall be laid on the day of Her Majesty's Jubilee. The site has not yet been decided upon, but there is every probability that the new huildings will be erected on the grounds where the Colonial and Indian Exhibition was held last year. The old huildings have alreads:
been removed.

The question now arises, what benefit will Canada derive from an Imperia. Institute?

1. It is to be premised that each of the colonies will retain its own individuality, by having suflicent accommodation for a musemm and offices; such an arrumgement would be advantageous by concentrating all the colonial oftices now dispersed over London.
2. It is considered that it would be more economieal, as the expenditure for rents would be less, and the museum would be invaluable to the agents of thr respective colonies in their dealings with commercial men or intending immigrants.
3. The museum would be a permanment advertisement of Canalian prolucts and trade collections. Ititherto, Canada has only had an opportunity of exhibiting her products and manuffetures to Europeans alout once in each deade, this is doubtless of consideruble value, hut it is well known that private individuals who have amassed colossal fortunes in trade by advertising, have done so by constant and continual advertising. The same rule which applies in this ease to the private individual is applicab'e to a colony. This can be proved ty the aetion of Australia.

Prior to the Centemial Exhibition of 1876, some of the colonies of Australia voted money for the establishment of a colonial musemm in London, and part of their permanent collection was exhibited at Philadelphia. Not knowing the date of the establishment Australis toum I will thke the year 1874. On comparing the value of exports from seven millions of pounds sterling ( $835,000,000$ exports the year 1884 amounted to over in 1874 .

We will now see what Canada has done during the same period. In 1874, the exports to Great Britain amounted to $845,003,882$; in 1884, the exports amounted to only $\$ 43,736,227$; a decrease of $\$ 1,267,655$.

It is therefore evident that permanent exhibitions are of great value to a colony, and if Canada is to find a larger market for her products and manufactures, we must not be Exhibition, but inust temporary attention to our goods, as was done at the Colonial forests, mines and fisheries, and our trade our trade by keeping the importanee of our other nations.


CHART OF THE WORLD SHOWING THE BR


WORLD SHOWING THE BRITISH POSSESSIONS.


WARWICK \& SONS, Printers, 26 und 28 Frant St. West, Toronto.




[^0]:    * I suivequently dirrectel Mr. Bowens athention to the fuct the
    

[^1]:    *The Canadian Plumbago and its products, as exhibited at the Colonial Exposition, took the highest awards at the Philadelphia and Paris Exhibitions for pencils and crucibles, and it is to be hoped that this important trade will soon be in the hands of Canadians.

[^2]:    * Photugraphs of similar threshing machines can be spen at the Educational M[useum.

