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How to Make Geography an Attractive Study.

Much has been said in the papers lately concerning the

speak from mere theory, as to how it might be made more pleasant and profitable, but from actual experience in my own school-room, where the geography lesson is one of the most spirited and interesting of the week, because, having suffered from its dry details during my own schooldays, I determined that my scholars should not suffer in the same way. As I have been feeling my way gradually and making experiments in teaching

it with that view before me, perhaps some of my young fellow-workers may find one or two hints of advantage. First, I have a set of Guyots' Physical Outline Maps (besides the regular Atlas), one of which I hang on the wall during the recitation, for when once the pupils understand the distinct coloring they are of the greatest aid in forming the idea of the physical characteristics of a country. Take for example the Continent of Europe. Instead of being obliged to commit to memory—that it is low in the north and east, mountainous in the centre, south and west, a fact soon forgotten, they see by a glance at the map just where all the lowlands lie, by the distinct green color; just where the table lands begin to rise, by the buff; where the mountains are high, by the deep shading; and the line of white distinctly traces the snow-covered Alps. It fastens itself on the memory as no mere learning can fix it there, and the mind's eye always sees it so afterwards. Then I follow Guyots' general idea, given in his Earth and Man, of comparing the chief characteristics of the different continents; how in the New World the principal mountain ranges extend from north to south, the subordinate ones, from east to west, and how it is reversed in the Old World, and then I let Much has been said in the papers lately concerning the study of geography. Some speak of it as a dry study that must necessarily be carried on, others depreciate it as worthless, a mere taxing of the memory to carry statistics for examination days, but of no real value; others ask to have it banished from the school room, thinking it a waste of time. As many children have still to spend much time over it before it is banished altogether as a study, I would like to suggest one or two lesson, and so gain some practical advantage from it while yet it is suffered to remain. I do not mean to them point out and compare for themselves, the Rocky

Holland and England's naval battles; the inland seas and stop in every country or city where we can find the gulfs and bays will be no mere names to them, no dry article of which we are in search. Sometimes we enter the statistics, but will be peopled by, and associated with, adventurous, brave, enduring men, and live long in the memory. When some such general plan is carried out in regard to all the natural features of a continent, then the details follow. I give a very short lesson, to be studied at home, on one country alone, but my pupils know that is not all when they come to recite, for I spend much more time preparing the lesson than they do, gleaning points of interests from books of travel, magazine articles, and encyclopædia, hunting up pictures to illustrate any part of the subject, or condensing a bit of history or story. While I am on this point, let me make one suggestion which I have found most valuable in my schoolroom, and that is a scrap-book, made of clippings from newspapers and magazines. Items are to be found, in everyone I take up, on all manner of subjects connected with the different countries of the world, many of which are awaking to progress and liberty from the sleep of centuries, items which are to be found in no school-book, nor indeed in any book, and help both teacher and children to feel that the world is alive, and the country and people they are studying of in some far off land, are very real, with their interests very closely interwoven with their own. My scrap book tells of sleepy Trukey waking up to the necessity of railroads and the advantages she will gain there-from; of wonderful descriptions of the Mount Cenis Tunnel, that no text-book has room for; of the visit of the Shah, so romantic in its details, and yet seemingly so important in the new opening of the East to Western treasure, without which her richer iron mines lie almost civilization; of Chinese coal-fields and Canadian salt useless, any intelligent child will easily fix upon such a deposits; of African adventure and discovery, and a fact and retain it, which class of facts are not of so much strange journey through the heart of Asia; of Arabian value in themselves, as they help the reasoning powers deserts and curious eastern cities; of the freeing of slaves and habits of observation.

in Brazil; and of the opening light in Japan. It has stories of life in Lapland, Siberia, Borneo and China; it cannot "go through" a geography in a term or two, but contains pictures of remarkable trees of different lands, it seems to me worth while to devote a longer time to and a real grey silky leaf from a South African forest. one continent, and leave an impression of its being a It relates of Amadeus' abdication, and the royal progress and coronation of the Scandinavian monarch; King Oscar. It describes the late funeral of an Indian Prince; and the Russian Ice Palace; fêtes in Turkey, and wonders of South America. So it interweaves interests of to day by some greater interest that presents itself. It also with every land or nation we touch upon in one geogra- excites in them a desire for books of travel and a more phy lesson, and makes the children understand their reality and life. But to go back to the lesson itself. It any other way. begins with the few thoroughly studied questions, answered promptly, because they are so few and have been no burden to remember, then comes, sometimes a description of the people who live in the country of the day's lesson, their manners, customs, occupations, interests, or some interesting item of the country itself, its scenery, or some great natural curiosity; after these a journey in imagination to test the knowledge conveyed in these items and their familiarity with the country, or perhaps instead some questions on last day's narrative. When we take journeys, the starting place and destination tion to the manner in which those in authority discharge are given and then the pupil travels in the mode of their duties will the prosperity of the nation be permaconveyance used by the inhabitants. Either she sails nent. There is nothing plainer than that for many years conveyance used by the inhabitants. Either she sails through bay or sea, river or lake, passes capes, islands, through straits, creeps along the coast, or sees only mountain tops in the distance, and arrives at last at her port; or she climbs mountains, crosses rivers and valleys, stops at cities and towns, everyone connected with some great or local interest, describing the scenery and mentioning the occupations of the inhabitants, or any special because experience, education and special training are as production, or peculiarity of custom. Sometimes when necessary to success to the agriculturist as to the lawyer, each country has been thus traversed, we all start together the physician or any other class of professional men.

daring; in the ancient Venetians, rich in trade; tales of our wardrobes, libraries, pantries, or general household, domestic life of those whose manners are very different from our own. Sometimes we all go into far northern countries and see strange sights, like the progress of glaciers and the birth of icebergs in the Norway flords, or the Geysers of Iceland; come to port in such odd towns as Hammerfest or Archangel; or visit the tea-loving women of the Shetland Isles, and see them knit while their husbands are away fishing; or look on at the ceremony of the Bridal of the Gulf of Venice; or trace again the romantic journey of the Lion hearted Richard. No journey can be taken without a host of associations to make it interesting and chain the memory to the places visited. Even the productions, imports and exports will be remembered if some reason is given for it. That Southern Russia exports hides and tallow will interest no child, but describe to them those great bare plains over which the wind sweeps with such fury as to roll the dried grass in great balls over its vast extent, and the drifting snow holds sway in winter, but during the brief summer months the wandering tribes roam with their great herds of cattle, and the children will always associate the two things together. Or tell them that England produces both iron and coal, while Norway only yields iron, and such a bare fact will soon pass from the memory, but tell them how England has grown wealthy because her iron can be worked so readily with coal-beds close at hand, while poor Norway has to send her ships over the rough North Sea to gain the coveted treasure, without which her richer iron mines lie almost

real part of the same world in which they themselves live, with just as real people with interests like their own, than to hurry through a book giving a list of facts which they will probably soon forget, or have wiped out extended knowledge of the world than they can gain in

hope that my few hints may be of some practical value to others.

B. W. SABINE.

Technical Education.

The rulers and teachers in a country so extensive 25 Canada is, have great responsibilities, and just in proporto come agricultural pursuits must take a leading place among our industries, and although such a life does not promise much for the ambitious, there is a sufficient prospect of reward in the pursuit of that calling for patient, energetic, industrious and intelligent workers. We do not hesitate to say that no other class can succeed, over the whole continent, with the purpose of furnishing is therefore highly desirable that we should have provided

abundantly in this country the means for instructing the understanding that, one achievement made strictly in field, however necessary those are, but they ought if would enable them to judge of causes and effects in the same way as a practical chemist, and to have such a knowledge of mechanics as to serve them in adapting all labour saving contrivances to their peculiar necessities. Such knowledge would be of far more general advantage piece of mechanism that might be useless for any purpose is power, but only in the sense of applying it to some useful purpose. Already the world possesses a superabundance of men whose heads are filled with abstract reasonings; whose minds are vast storehouses of heads. reasonings; whose minds are vast storehouses of know ledge, but they lack the ability to apply it to any useful purpose, and so it is of less value than the miser's gold, for it cannot even be used by those who come after them. To educate in such a way as to convey knowledge to the mind of certain fundamental principles and afford the means of practically illustrating their value is of the greatest importance. A great deal of attention is very properly paid to educating young men in schools of law as well as to the individual prosperity of all wand medicine, of theology and theoretic science, but in upon the great work which requires to be donethis utilitarian age we want schools especially devoted to instruction in the practical industries of life. In every progressive country in Europe for many years, and latterly in the United States, technical schools and colleges have been established, in recognition of the principle that every useful occupation of man is a specialty; that it involves in its exercise principles and practices peculiar to itself-which do not in the same degree belong to any other. In order, therefore, to have these things inti-mately understood so as to make them applicable to everyday life we must have more regard for technical education. We are aware that this matter has received considerable attention thoughout the Dominion, but at the and to their parents, and he is responsible at the same same time we fear that those who advocate schools and colleges of this kind are too generally looked upon as dreamers, whereas they are the only practical educationists. They are not content to let a man blunder on from the beginning until dear bought experience teaches him his errors, and shows him when his energies are spent that he might have done better had he known more at the beginning. They desire to give young men a fair start in the race, and to show from the beginning What should be avoided and what attended to as advantageous. It is a far too common error, and one which must soon explode, that only large farmers can afford to use scientific knowledge on their land. The fact is the very opposite. We do not want men to become experimentalists without well defined laws to guide them, but with a knowledge of these a farm of small dimensions may be made more valuable to its cultivator than one of ten times its extent without the requisite information. It is a small thing to know that cabbage was originally a sea plant, and that if attacked by caterpillars or slugs, salt will destroy the insects and promote the growth of the plants. But then the man who knows this ought to be taught that a dressing of salt will have a different effect on a crop of pease for instance; and so on from one kind of knowledge to another. A vast amount of information, wonderfully useful in practice, may be taught in the simplest form, and conveyed to the mind without in any way perplexing the memory with technicalities and long

youth who design to make agriculture and mechanics accordance with the laws of nature will start new their future calling. It is not enough that men shall thoughts to be followed by new successors until advance-bring strong arms and willing hands to their work in the ment and improvement will take the place of failure and disappointment. It has been said that the greatest happipossible to have the advantages of a special training that ness of the greatest number should be the end and aim of all social and political institutions, and that being so, it is clearly our duty as a nation designed by nature to occupy a place as important as our country is extensive, to place the means for acquiring really useful knowledge withing the reach of our ever increasing population. Our than that which the professional chemist exercises in his present remarks have been chiefly directed to what is laboratory, or the ingenious constructor of an intricate necessary for the training of agriculturists, believing that the cultivation of the land will receive the greatest life, and, therefore, we hope to see educational institutions of this character established generally thoughout the Dominion, and conducted in such a way that attention shall be given to thoroughly grounding the pupils in the fundamental principles of nature's laws rather than aiming at great achievements in scientific know ledge. This being effected, thought will proceed on sound reasoning, and the result will be to the nation's advantage as well as to the individual prosperity of all who enter

-(Chronicle).

Boards of Examiners—Their Functions and Responsibilities.

The school teacher holds a position in society second neither to the clergyman or editor. He has to train the children of the present generation for fitly exercising the duties of the men and women of the next. He is first of all answerable to the children placed under his charge time to society for the manner in which he discharges the all important duties entrusted to him. It is obvious, therefore, that unless he be well fitted to exercise the functions assigned to him, that our children will grow up but indifferent citizens; and Society, as a consequence, exacts of those who may certify to his competency for that office a rigid regard for truth, which involves the strictest impartiality on their partin granting such certificates. We are conscious of the existence of very lax notions among our Boards of Examiners in regard to their obligations, the fruit of which is seen in the numbers of very poor teachers at present engaged in imparting instruction in our public schools; and it is not to be wondered at that these Boards do not stand in the highest esteem with those who are best capable of understanding the duties which fall to those engaged in the work of teaching. While the responsibility of being an examiner of teachers is great, the position is one not to be envied, as those who may conscientiously discharge that duty know to their regret; but unpleasant as it is to reject an applicant, it is better to incur the odium of irate friends and the displeasure of the disappointed, than to flood the country with incompetent teachers; and there are some Boards that do not hesitate to accept the displeasure and odium resulting from a conscientious discharge of their duties.

Only those who have to perform that ungracious task can estimate correctly the difficulties of the position. In sounding names of Latin origin. The nature of things is the case of young girls especially, it is in the last degree what the youthful student ought to be taught, and painful. They believe themselves competent—they have been justified by the assurances of their teachers, perhaps their friends think so, and in many cases their pastor or a friendly disposed clergyman, whose acquaintance with the candidate may be of the slenderest kind, endorses their fitness beforehand, and the rejection of such, by the Board before which they may come for examination, is to many a crushing blow; and in full view of all this, tender hearted examiners will frequently pass applicants utterly unfitted by training, aptitude, and education for the position of a teacher. This is a grievous wrong both to society and the candidate. It explains the humble position which in the rural districts the teacher occupies; it explains the reason why their salaries are so much lower in many cases than the hired domestic servant. If none but good teachers were commissioned, the remuneration paid for their services would be higher than it is, and their position in society would be raised. Instead of been obliged to be hawked round, pauper-like, for bed and board under the prevailing system of boarding round, they might then command and have salaries commensurate with their value, and teaching would to him that the greatest honour was due to the College eventually become a profession-not a mere filling in of of Preceptors for having so strenuously and persistently time, as it now is-a means for eking out a few dollars until something better turns up.

The functions of Boards of Examiners may be made more pleasant to themselves, more advantageous to the profession, and more satisfactory to applicants for diplo mas if teachers would be candid in their advice to those of their older pupils who intend to make application for examination, rather than to yield, as many of them now do to the prevailing desire to "teach school" which almost

every young girl of 14 or 15 exhibits.

We have had a long experience in commissioning common-school teachers, and we are obliged to confess that the number of really fit ones sent out is very small. It is only by the exercise of a very liberal charity in the formulated examination that even the best of them pass, and we have come to the conclusion that more depends upon the candor and honesty of teachers, parents, and friends, than upon the examiners. It is very easy to lay down rigid rules and say what we would do if we had the duties of examiners to perform—but the misfortune is that every parent thinks his son or daughter—if they happen to be a little smart—as fit as somebody else, and every teacher is prone to say—though he may know to the contrary—that this or that scholar of theirs can obtain a diploma, "if they only get fair play!" which latter phrase means if the Board will only make a pretence and a sham of their work.

All should bear this simple rule in mind—that we can teach only what we now—if we don't know, we cannot teach. The pretence of teaching, therefore, without knowing, is a fraud upon society, upon parents, and upon the children.—Richmond Guardian.

The Bishop of Barbadoes on Examinations and Prizes, at the Royal College of Preceptors, London.

The Chairman, the Right Rev. the Lord Bishop of Barbadoes, in opening the proceedings, said that, on such an occasion as the present, it was impossible not to notice what he thought would be hereafter remembered as an important feature when the educational history of the nineteenth century was written. This was a feverish age; and in education, no less than in other matters, people's minds had been seriously exercised with regard to trying all soits of experiments. In connection with the would say, put not too much faith in examinations this great work, as with others, there seemed a desire to dig about the very foundations of the fabric, to see that

they were sound, and to have the whole building of education carefully re-surveyed and to some extent re-constructed. Now, one point, in which perhaps the founders of the great building of education had been found somewhat deficient, was that it had been fondly imagined that the power of education came by nature, and that it was possible for any person, however unprepared, to enter upon this duty whensoever it was convenient to do so. Now, he believed it would be remembered, in connection with the present age, that the College of Preceptors had, more than any other body, devoted itself to the task of combating, not only in theory but in act, the delusion that the faculty of education came by a sort of supernatural inspiration, and needed no previous training or culture. He did not mean that it was ever supposed that the person who embarked on the province of education could dispense with being more or less instructed; but by culture he rather referred to that more special training in the art and theory of education which was now commonly admitted to be necessary. It appeared taken the lead in this matter, and especially for having incorporated in their newly revised regulations for conferring the diplomas of the College, one to the effect that no person should receive a diploma unless he satisfied the Examiners of his capacity as an educator both theoretically and practically. In connection with this effort—this strenuous effort—he could not but congratulate the College on having taken such a decided line, and, in fact, being the first learned body to establish a professorship of the science and art of education; nor could he too much congratulate them upon the selection of the first professor. The choice of the Council had fallen on his friend Mr. Payne, and he was happy to say that a most marked success had attended his energetic efforts to infuse into his lectures something of that activity of mind and vivacity which characterized all his doings-It was very often supposed that a person, before entering upon the work of education, had finished his or her own educational course, but he could conceive of no more fatal illusion to a good educator. The education of the educator really began when he or she undertook the great work upon which they entered. If they were simply content, as it were, to pump out of themselves knowledge and facts which had been previously pumped into them, they became simply mere machines, and would never attain to a practical knowledge of good education, which was simply the impression of one energetic mind upon others. Upon teachers, therefore, more than upon any one else, would be specially urge the duty of constant self-culture, and the keeping as far as possible abreast of the thoughts, disconstant and literature of the coast. coveries, and literature of the age. This was not always an easy task, not simply from a question of time, but because the brain power was apt to be exhausted at the close of a day, the best hours of which had been spent in the honest earnest work of education. Still, any teacher who wished to do his duty intelligently must be perpetually taking fresh pabulum. They could not be like spiders, perpetually spinning webs out of themselves, but must march with the age, and endeavour, as far as possible, to keep themselves acquainted with all that was worthy of being read and assimilated, as it was from time to time made public. Lastly, he would say a word or two to the young people before him, who were about to receive the prizes and certificates awarded by the Council as the result of efficiency in the past examination; and to them

too thankful for the advantage that they received from doubt if it has been regarded as largely a science by them; but still examinations were to be considered only as whetstones, which, more than anything else perhaps, sharpened the intellect. The tendency of the age, he feared was to put excessive faith in examinations, both on the part of those who wished to test educational results, and on the part of those who wished to be tested. Many years ago Aristotle made this point very clear when, at the beginning of his Ethics, he spoke of the great variety of ends, some things being ends in themselves, whilst other ends were simply the means to higher ends. Now, he would strenuously impress on his young hearers that examinations belonged to exactly the latter class of ends, being simply instrumental to something higher and better; and for boys and girls to work under the pressure of an approaching examination, would be fatal to any true intellectual life, for if, indeed, examinations ever took that place in people's minds, they would become paralyzing instead of stimulating. Therefore, though pupils should go through their work with a thorough cordial goodwill, in view of the examination immediately before them-for that which lay straight before one in the work of life was always the most important-still it should be remembered that the examination was not the final end to be looked to. The end of the examination was to make clear to the pupil what point he had attained; its use was then at an end, and it was only from that point that true culture began. The only training or culture really worth having was something spontaneous—something which was not tested by any examination, but was the result of that love of learning, that desire for self-culture, that ardeut zeal for self-improvemut, which lay at the root of all real success in examinations, but which could never be created by them. He trusted, therefore, that those who had passed their examination successfully would bear in mind what he had said, and look forward in the far future to making a hearty, energetic use of whatever talents their Maker had given them, for the good of the public and the glory of God.— The Educational Times.

Science of Teaching.

When Democritus was asked what wit is, he replied, "Tis that which we all see and know." And, however unsatisfactory a definition this may seem to be, when we have pondered the subject, we shall arrive at precisely his conclusion—that one will apprehend the nature of wit better by an acquaintance with it, than from any description possible. So were we to inquire what is that which is the vital essence of successful teaching, we should finally be answered, that it can better be seen and known than be told. You can know a good school, as you can good wit, without the aid of a showman; it makes itself known. The successful teacher knows better than any one else when she truly succeeds, although she may be too modest to say so, and too aspiring to be satisfled; and she knows it far better than she could explain whence her success originates. Let me state parenthetically that I here use a pronoun of the feminine gender because teaching seems to me a natural office of woman; man seems to have been called to occupy that portion of her sphere, which she, lacking the endurance or the incentive, has failed to hold.

But cannot success in teaching be partially, if not wholly, described by means of some distinctive marks? and cannot its origin be sufficiently well pointed out, for the help of those who would enter the profession?

many outside of the circle of those who may be called professionals. The great majority, both of teachers and of school officers—we might add citizens—think that one who is not a teacher born can acquire the faculty of teaching, only by its exercise, just as one learns to skate, to swim, or to dance. And, as instruction aids one in acquiring these accomplishments (and who would risk his reputation as a dancer before he had practised, under a master, the steps and graceful evolutions which he aspires to execute in the ball-room?), so is instruction in pedagogy valuable, and, I believe, generally essential, to the highest success in teaching. Why is it that any are so presumptuous as to attempt the practice of the art before they have studied the science? It is not difficult, I think, to find the reason. The applicant for the teacher's place has attended school, and this affords occasion, though not the reason, for her over-confidence. For, having seen her teacher go through the duties of the school-room day after day, with that grace and naturalness which practise gives, it seems to her an easy matter to teach. The same person, looking upon a company of dancers whirling through the elegant mazes of the ball-room, might think dancing very easy; but she would hardly venture, unpractised, upon the floor—for, she says, there are so many looking on, and one might fail. It were, indeed, fortunate, if this self-distrust, which is manifested, with regard to an accomplishment that in fested with regard to an accomplishment that is not over-difficult of acquisition, were felt in presence of an undertaking so infinite in its demands as is school-teaching. Moreover, if one had to enter upon teaching under the eyes of many beholders—critics and judges, as well as spectators—who had come to know the difference between grace and awkwardness, between ability and incompetency, she would go to her work very modestly, or, most likely, go prepared. But even "recognition," as Ruskin remarks, "is no prof of real and intrintrinsic resemblance. We recognize our books by their bindings, though the true and essential characteristics lie inside." Teachers are too often judged by unimportant characteristics. This one is approved, "because she keeps her hours," or "because the scholars don't laugh and shout at recess time." If, then, teachers enter upon their work without due qualification, the fault is as much the public's, who would laugh at an awkward dancer, and who cannot judge whether a school-teacher is really well-fitted for her duties or not.

A knowledge of the branches taught at school is not a mastery of the science of teaching. If it were so, then every one who knows how to read, write, or cipher, is competent to instruct others in those branches. People will generally admit that there is a vast difference be-tween knowing and telling; but they are not fully impressed with the fact that the faculty of telling may be acquired. If it does not come naturally to one, they say:
"It is of no use,—she never will be a teacher." Nevertheless, as the district has hired her, and she has passed the requisite examination, let her go on. No glaring fault appears. The order is good—in fact, the schoolroom is as still as the grave and as lifeless. The scholars do not learn much. They are indifferent and slow—that is, of course, they are dull. The teacher knows enough. Such is the popular verdict. Alas! as a teacher, she is ignorant. One might know aslow well and yet not be able to rant. One might know colors well, and yet not be able to paint a fine landscape. There is all this difference between knowing and teaching; and, until "normal" methods of recitation are adopted in all our schools, one should not pass immediately from the pupil's place to the teacher's station. To justly appreciate this last statement, let any teacher take the brightest member of her class in Is not school-teaching a science, as well as an art? I arithmetic, one who could readily perform any problem

in the book, and ask her to teach the reduction of a fraction to lower terms.

This is instruction. Some dislike the name; I do not. Some prefer education, a drawing out; as if there were some well stocked spinneret in each mind, out of which, by nice skill, could be spun the warp and woof of all possible intellectual fabrics. Instruction is a building upon, and it suggests the foundation; and, with that comes the illustration of our Saviour, in the parable of the two men that built—the one, upon sand, the other, upon a rock. What a noble architect the true teacher is! And lo, his building! what a glorious edifice of manhood and womanhood, with lofty purpose and Christian steadfastness, unhedged about by deceit, illuminated with the light of clear, penetrating thought, and warmed with a generous philanthropy and love.

> In the elder days of Art, Builders wrought with greatest care, Each minute and unseen part; For the gods see everywhere. Let us do our work as well. Both the unseen and the seen; Make the house where gods may dwell, Beautiful, entire and clean.

The chief object of the teacher, then, is to prepare the mind; to discipline. Observe the appropriateness of the word Discipline, to make disciple-like; and disciple is simply learner. When the mind is discipled, (disciplined?) when it is ready to learn, the work goes happily on. This is that receptivity of which I have spoken. But there are two kinds of receptivity. A sponge is receptive, and so is a bucket; but you have only to place the sponge in contact with the water, and it will fill itself. This is active receptivity, and this is what we want. A mind put in this attitude, magnetized as it were, continues to gather to itself knowledge, even long after the teacher, the original magnet, is removed. Water will evaporate from a sponge, if not constantly supplied; and, as constant supply is not always possible in educational affairs, the mind must have a power of holding. We must fix some things, "as nails fastened by the masters of assemblies." We must weld knowledge to mind, or knowledge to previous knowledge; for we are acquainted with mind only by what it contains. Here some writer furnishes us with the unfolding of our thought. It is impossible to weld pieces of iron, unless they are first brought to the welding heat. I am glad to be thus able to mark clearly another condition of success in teaching. Enthusiasm in the teacher is the source of this heat; and when the mind is all aglow with the same spirit, from the forge is brought forth that which is to be imparted, it is applied, and with closer skill becomes inseparably joined.

Now, precisely how to do all this is a matter of much

concern and no little difficulty. If the point is settled that it positively must be done; then, in nine-tenths of all cases, it positively will be done. Successful preparation for teaching requires, first, will; and secondly, will. Then, one must proceed as in other affairs. The experience of those who have tried and succeeded, and of those who have tried and failed, is embodied in what may be called the science of school-teaching. And, as teaching consists, first, in putting mind in readiness to receive, or to reach and grasp; and secondly, in communicating thoughts or suggestions, as well for the development of mind as for its endowment; therefore, the science of mind, psychology, is and must ever be a part of the science of teaching.

There are two views of the purpose of teaching,—one very false and very prevalent, and the other as rare as it very false and very prevalent, and the other as rare as it is worthy. The false view is this: Knowledge of cer sists in a thorough knowledge of the subjects to be taught,

tain branches is necessary to man; childhood is the golden time for storing the mind with that knowledge; and the teacher is employed to store it. The objection to this is, that bare knowledge is over-valued, and mental culture is everlooked. Knowledge may pass from the mind and be recalled, as the boy's toy-ship is drawn back with the string, provided that proper culture has furnished the string. If the mind is rightly trained and used, manhood is more golden than childhood as an occasion for gathering knowledge. The teacher cannot store knowledge into the pupil's mind, without the cooperation of the child, and it is the child's part to be receptive. Who would try to fill a sieve brimful with water?

The correct idea is a worthy one, and I never knew a teacher to fail who made it her compass and chart. mind should be in a state of readiness—if possible, in a state of expectancy—before facts and principles are presented. Why would you not discourse to an infant of Neo-Platonism or the nebular hypothesis? Obviously, because he has not the mental preparation requisite in order to comprehend you, There are not more than two or three words that are capable of conveying any idea to his mind from yours, and they are the names of the most familiar objects. Beyond this, you may communicate with him by a smile, a gesture, or an expressive articulate sound. And that is all, for the present.

> Who can tell what a baby thinks,-Who can follow the gossamer links, By which the manikin feels his way Out from the shores of the great unknown, Blind, and wailing, and alone, Into the light of day?

Who is not interested to see the vacant, yet curious, stare of infancy change as this "light of day" brightens, into the intelligent look of inquiry? Who has not watched with pleasure, as object after object is taken in hand, examined on all sides with the most serious scrutiny, and then placed to the mouth for the final test? By and by, the name is caught, is attached to the object, is spoken—with what a baby brogue! It is needless to trace the whole way. Where the infant got its prattle, we know not; but the prattle, the childish curiosity and quickness to imitate, are the foundations for our instruction. We correct the prattle, changing it into proper speech; and the child is no longer an infant (unspeaking). Thus we go on. Upon that which is, we lay that which was not-upon the foundations, ever the fitted superstructure.

Psychology might be acquired, wholly or partially, in two ways. As far as possible, one might recall his own mental attitude, when the individual elements of knowledge were successfully presented to him; and then the aim would be, to secure the same mental condition in the pupil. The knowledge of psychology thus obtained would be fragmentary and insufficient, inasmuch as it is deduced from the experiences of a single mind; yet, where one person finds no need of explanation, another meets with his most insuperable difficulty. Psychology, as presented in books written upon the subject, is the combined experience of many minds, classified and arranged according to scientific methods. It has, there fore, both a wider and readier application. The study of some text book in this science we regard as essentialand not only the study, but the mastery of it. The day is coming, I believe, when this view will be accepted by school-officials everywhere, and the examination of candidates for teachers' places will include the science of mind, as certainly as the science of numbers.

teaching them. Another very important means of prepateacher has got the intellectual preparation recommended she is not yet ready to enter upon her work. She must acquire a certain grace or tact, in the use of it. Sculptors do not attempt the development of their artistic conceptions in the marble, until they have fashioned a model of them in plastic clay. So, our teachers should first tax their skill upon model classes, in the Normal School, or the Training School, where defects may be at once detected and remedied without detriment to youthful minds.

Happily for the cause of education, public sentiment is growing in the right direction. Soon, there will be few engaged in the profession of teaching, who have not had the benefits of a Normal course and served an apprentice not to admit that there are many excellent teachers who never enjoyed those advantages; but they will acknowledge, with us all, that their attainments have been must, on the other hand, be affirmed that Normal training cannot qualify every one that undergoes it; but it certainly improves all. And if we ever must place precious, eternal minds, the best jewels of earth, in the charge of persons unfit for the trust, by temperament, education, and habits; then, at least, give these persons the most thorough and careful training that can be obtained.—Anonymous in Penn. School Journal.

Letter to a Student Who Lamented his Defective Memory.

So far from writing, as you seem to expect me to do, a letter of condolence on the subject of what you are pleased to call your "miserable memory," I feel disposed rather to indite a letter of congratulation. It is possible that you may be blessed with a selecting memory, which is not only useful for what it retains, but for what it rejects. In the immense mass of facts which come before you in literature and in life, it is well that you should suffer from as little bewilderment as possible. The nature of your memory saves you from this by unconsciously selecting what has interested you, and letting the rest go by. What interests you is what concerns you.

In saying this, I speak simply from the intellectual point of view, and suppose you to be an intellectual man by the natural organization of your brain, to begin with. In saying that what interests you is what concerns you, I mean intellectually, not materially. It may concern you, in the pecuniary sense, to take an interest in the law; yet your mind, left to itself, would take little or no inter est in law, but an absorbing interest in botany. The pas sionate studies of the young Goethe, in many different directions, always in obedience to the predominant inter ests of the moment, are the best example of the way in which a great intellect, with remarkable powers of acquisition and liberty to grow in free luxuriance, sends its roots into various soils, and draws from them the constituents of its sap. As a student of law, as a university student even, he was not of the type which parents and professors consider satisfactory. He neglected jurisprudence, he neglected even his college studies, but took an rich indeed.

Yet the wealth which his mind acquired seems to have been due to that liberty of ranging by which it was permitted to him to seek his own everywhere, according to the We remember anatomy and botany because, although

together with an intellectual mastery of the science of maxim of French law, chacun prend son bien où il le trouve. Had he been a poor student, bound down to the exclusively ration is practice. Unfortunately, this practice is, for the legal studies, which did not greatly interest him, it is most part, first had in the school room. Even if the likely that no one would ever have suspected his immense faculty of assimilation. In this way men, who are set by others to load their memories with what is not their proper intellectual food, never get the credit of having any memory at all, and end by themselves believing that they have none. These bad memories are often the best, they are often the selecting memories. They seldom win distinction in examinations, but in literature and art, they are quite incomparably superior to the miscellaneous memories, that receive only as boxes and drawers receive what is put into them. A good literary or artistic memory is not like a post-office that takes in every thing, but like a very well-edited periodical, which prints nothing that does not harmonize with its intellectual ship in the management of classes. It would be unfair life. A well-known author gave me this piece of advice: "Take as many notes as you like, but when you write do not look at them—what you remember is what you must write, and you ought to give things exactly the gained at some expense to the interests of their pupils. It degree of relative importance that they have in your memory. If you forget much it is well, it will only save beforehand the labor of erasure." This advice would not be suitable to every author, he who dealt much in minute facts ought to be allowed to refer to his memoranda; but, from the artistic point of view in literature, the advice was wise indeed. In painting our preference selects while we are in the presence of Nature, and our memory selects when we are away from Nature. The most beautiful compositions are produced by the selecting office of the memory, which retains some features and even greatly exaggerates them, while it diminishes others and often altogether omits them. An artist who blamed himself for these exaggerations and omissions would blame himself for being an artist.

Let me add a protest against the common methods of curing what are called treacherous memories. They are generally founded upon the association of ideas, which is so far rational, but then the sort of association which they have recourse to is unnatural, and produces precisely the sort of disorder which would be produced in dress if a man were insane enough to tie, let us say, a frying-pan to one of his coat-tails and a child's kite to the other. true discipline of the mind is to be effected only by associating those things together which have a real relation of some kind, and the profounder the relation the more is it based upon the natural constitution of things, and the less it concerns trifling external details, the better will be the order of the intellect. The mnemotechnic art wholly disregards this, and is therefore unsuited for intellectual persons, though it may be of some practical use in ordinary life. A little book on memory, of which many editions have been sold, suggests to men who forget their umbrellas that they ought always to associate the image of an umbrella with that of an open door, so that they could never leave any house without thinking of one. But would it not be preferable to lose two or three guineas annually rather than see a spectral umbrella in every door-way? The same writer suggests an idea which appears even more objectionable. Because we are apt to lose time, we ought, he says, to imagine a skeleton clock-face on the visage of every man we talk with; that is to say, we ought systematically to set about producing in our brains an absurd association of ideas, which is quite closely allied to one of the most common forms of interest in so many other pursuits that his mind became insanity. It is better to forget umbrellas and lose hours than fill our minds with associations of a kind which every disciplined intellect does all it can to get rid of. The rational art of memory is that used in natural science.

the facts they teach are infinitely numerous, they are arranged according to the constructive order of Nature. Unless there were a clear relation between the anatomy of one animal and that of others, the memory would refuse to burden itself with the details of their structure. So in the study of languages, we learn several languages by perceiving their true structural relations, and remem bering these. Association of this kind, and the maintenance of order in the mind are the only arts of memory compatible with the right government of the intellect. Incongruous, and even superficial associations ought to be systematically discouraged, and we ought to value the negative or rejecting power off the memory. The finest intellects are as remarkable for the ease with which they resist and throw off what does not concern them as for the permanence with which their own truths engrave themselves. They are like clear glass, which fluoric acid etches indelibly, but which comes out of vitriol intact.—
"The Intellectual Life," by Philip Gilbert Hamerton

School Text-Books.

That a book is a book, although there is nothing in it, is a poetical aphorism of which the truth is undeniable. How many books are issued from the press that have nothing to commend them to public notice, the professional critic alone can tell. It would puzzle many to explain the cause for the appearance of hundreds of the bantlings that now fall from the press, and disappear from the public eye within a brief period of their birth. Of school-books the numbers appear to be increasing from year to year, and teachers as well as critics are bewildered in the attempt to find any substantial difference between the new and the great majority of the old. Too many of them are produced after the manner of the kaleidoscope. The same matter is re-arranged so as to appear in a some what different aspect, but remains substantially unaltered. There is less novelty in the idea than in the typographical arrangment, and frequently the profession is deluded into buying as new what is simply a recasting of the old without any alteration whatever. Every book must be welcome which tends to lighten the teacher's labour, which simplifies what has hitherto been difficult, and which, by, any improved method, enables him more effectively to communicate instruction. The school-book which is the result of skill and experience, which clearly opens up a shorter pathway to success in teaching, is a boon for which the whole profession should be grateful; but the mere remodelling of old material, so as to afford the glory of authorship and the honours of a title-page, should be frowned upon and discountenanced. The multiplication of text-books is a thing that has lately increased, is still increasing, but ought, in some measure, to be diminished.

What are the qualities which should mark a text-book, and especially which should be kept in view by new writers who are anxious to witch the world with noble authorship? Decidedly in the forefront we place as the first qualification that the book must be new-that its purpose shall be to expound something novel, or to inform us of a better way than that with which we are familiar; and, so far as the plan will permit, we prefer in every book that it shall be brief. Too many of our school-books err grievously in this direction, forgetful of what can be accomplished in school, and how much should be left for explanation by the living voice. If all unnecessary matter were crushed out of many manuals which aim at exhausting the subjects of which they treat, they would

fat were removed, and their muscle made more apparent, their usefulness would be increased, as the human system is improved under similar treatment. As it is, the pupils are often compelled to wade through a mass of matter which is quite unnecessary at the schoolboy stage of intellectual development; and weary hours are spent in retarding solid progress in the vain attempt to accomplish more than is possible. For the memory part of schoolwork there could be great improvement in more than half of even the most popular text-books now in use. Brevity is not only the soul of wit, but the life of everything that pertains to instruction To press within narrow limits, in clear and tangible form, the great landmarks of every branch of study, is to secure rapid progress in laying the firm foundation which precedes the attainment of sound scholarship. With this condensation would come economy in time and the cheapening of the books themselves—two very important considerations for both teacher and parent. The more cheaply that books are produced, the more likely are they to find their way into schools in abundance; and the more aptly that they are suited for the work of instruction, the better are they as tools in the great workshops where we are daily engaged in moulding the youthful brain.--The Schoolmaster.

The Elementary Education (England) Act, 1873.

This Act, which received the Royal assent on the 5th August, introduces some important changes in the Act of three years ago. The more notable features of the Act now before us consist of the repeal of what is commonly known as "Denison's Act" (18 and 19 Vict., c. 34); of regulations for the holding in future of all School-Board elections by ballot, as in contested municipal elections under the Ballot Act of 1872; of certain provisions affecting corrupt practices at elections, and the legal proceedings connected with the prosecutions, under section 74 of the old Act (called "The Principal Act"), of recalcitrant parents; and of a clause enabling certain School-Boards where desirable to make up and audit their accounts but once a year. By section 3 of the new Act it is ordained that relief by guardians of the poor to the parent of a child between five and thirteen years of age shall be conditional upon the instruction of the child in reading, writing, and arithmetic, subject to the reason. able excuses which all Boards are bound to insert in their bye-laws for enforcing attendance under penalty; to certain minutes of the Department regarding districts where compulsory powers are not exerted; and to the possession by the child of a certificate held in terms of the Agricultural Children Act, 1873. To the parent is given full freedom to choose the particular public elementary school which his child shall attend. In November, 1872, the Lords of Committee adopted the ballot for all Board elections in municipal boroughs, but hitherto in parishes the method of open and cumulative voting has prevailed. Elections to fill casual vacancies (owing to continued absence, death, resignation, disqualification, &c.) are now to be held only on the day in the year prescribed for the election of members, except where an order is issued to fill up at once vacancies on a Board whose numbers are reduced to less than a quorum. In addition to the existing disqualification from exercising any franchise for six years, on conviction of corrupt practices at a School-Board election, it is further enacted that the offender shall be ineligible to serve on a School-Board, or to hold any municipal office for a like period. A wider limit is given to the circumstances upon which be greatly improved by the process. If their surperfluous School-Boards can borrow money on the security of the

school fund and local rate. These now include not only the providing or enlarging of school houses, but the paying off any debt charged on a school house provided by a board, or on any land acquired by them through gift, transfer, purchase, or otherwise, and the payment for works of improvement or fitting up a schoolhouse, which, by reason of the permanent nature of such works, the Department may deem desirable to spread over a term of years. Gifts for educational purposes may be accepted by School-Boards, and they may also act as trustees on behalf of any educational endowment or charity, so long as the undenominational principles of section 14 of the principal Act are maintained in their integrity, and provided that no money is expended out of the local rate in aid of any but elementary education. The Department is endowed with new powers to cause School-Boards to be formed for united districts without the preliminary inquiry and publication of notices hitherto requisite, where a resolution for union has been recorded by each of the component districts; and provision is made for the sub-division, under certain circumstances, of the formerly inviolable civil parish, the Local Government Board consenting. To this Board also are delegated powers, with the approval of the Department, for the auditing of School Board accounts in those instances where an annual, rather than half-yearly, audit is ordered. Fresh arrangements are also made for the publishing, by advertisement and placard, of notices and other matters of which the publication is demanded by either Act. Not less than one ordinary meeting is to be held in each month, but to Boards who meet ordinarily more than once a month power is given to vote, by a majority of two thirds, not to meet in August and September, or one of these months. Power is conferred for the first time upon the Boards who have framed bye-laws under section 74 of the former Act. to collect returns from the managers of any public elementary school in their district, and thus obtain reasonable information with respect to the attendance of the children within their jurisdiction. The course of proceedings before a magistrate or justices of the peace, in prosecutions for non-attendance at school, will meet the representations that were made in all quarters on the part of those Boards -and they were important ones—who have found themselves fettered in their action by many practical obstacles which presented themselves. Recourse is to be had to the "Summary Jurisdiction Act" (11 and 12 Vict., c. 43); the defendant is allowed to prove his excuse, though it be not anticipated by the informant, and any justice may summon, under a penalty not exceeding 20s., a child who is liable to any bye law requiring attendance at school, to be produced before a court of summary jurisdiction. Here a certificate under the hand of the principal teacher of a public elementary school, or of one of her Majesty's inspectors, will be admissible as evidence. It is further ruled that on the defendant shall lie the burden of proof of a child's age, as also the proof of stated efficiency with regard to any school not being public elementary (for of these the efficiency is guaranteed by Government) which the child is attending, the court having regard to the child's age, and to the standards of education (in the code) drawn up by the Department. It is for the defendant to show that the child has actually been at school, as alleged, in compliance with the bye-law, wherever the Board, by reason of the default of the managers or the proprietors of elementary schools, fail to ascertain this fact for themselves. This section of the new Act will prove a valuable ally to the cause of compulsory education, removing as it does most of the difficulties with which School Boards,

has been done under the principal Act before this one became law. The two will henceforth be known as the Elementary Education Acts, 1870 and 1873.—*Ibid*.

School-Boards in England.

Mr. Gladstone, speaking at an education meeting at Hawarden, said that he preferred voluntary to compulsory education. School-boards were doing a vast deal of good, but where four tifths of the education was provided he did not see why they should go to the expense of a

board to supply the remaining fifth.

By a return which has been published of the parishes and places where the question of establishing a school-board or not has been contested, it appears that in 465 places resolutions for the establishment of a school-board were passed, and in 113 places they were negatived. A poll was demanded in 117 cases. In forty two of those cases where the resolutions in favour of a school-board were adopted the vote was confirmed by a poll; in twenty four cases it was reversed. In forty-four cases where the proposal to establish a school-board was negatived the vote was confirmed by the poll, and in seven cases it was reversed.

The Liverpool School Board held an adjourned meeting, recently, to decide upon the manner in which they should meet a deficiency of school accommodation for 10,496 children. On the previous day the sub-committee on school accommodation presented a report showing that the number of children in Liverpool between the ages of three and thirteen was 94,868, and that, after deducting from this number 2070 for boys and girls and 2570 for infants, as authorized by the Education Department, the board had to provide for the education of 74,597 children. There is at present, or there is being provided, accommodation for 72,518 children; but, after deducting the school space which cannot be utilised on account of the population having migrated from the districts in which certain schools are situated, the sub-committee reported a net deficiency for 876 boys, 1020 girls, and 8600 infants: total, 10,496. They therefore proposed the immediate erection of schools for 1470 boys, 1470 girls, and 2460 infants: total, 5400; and recommended that present schools should be rearranged, so that they would be able to accommodate a larger number of infants. No estimate of cost was embodied in the report, but it was stated by the chairman of the board that the proposed outlay, added to the cost of schools now being built by the board, would bring up the expenditure to about \$1,000,000. An amendment was submitted proposing to postpone the further consideration of the matter for six months, on the ground that there were 21,522 vacant places in existing schools, irrespective of accommodation for 8000 or 10,000 children in schools not recognised by the board; and the debate was adjourned in order that public opinion on the matter might be ascertained. The discussion terminated in the adoption of the report of the sub-committee by a majority of 10 to 5.

Orders of her Majesty in Council have been published in the Gazette sanctioning by-laws for the compulsory attendance of children at school, made with the approval of the Education Department under the seventy fourth section of the Elementary Education Act, 1870, by the school-boards of Chigwell (Essex) and Thornton (near

Bradford).

ally to the cause of compulsory education, removing as it does most of the difficulties with which School Boards, in taking up that power, have had to contend. The Act concludes with certain protection clauses to cover what

one of \$50, to the London School-Board, to enable of the accuracy of the latter impression. In voluntary the board to send school children to inspect manufactures schools, Mr. Gregory told us, the cost of providing for and their processes at the London International Exhibition of this year.

Mr. Gladstone on School-Boards.

Mr. Gladstone's declaration of opinion on the relative merits of School Boards and voluntary education will be received with widely varying feelings in different quarters. The Premier has inaugurated the Parliamentary holidays with a manifesto which can only be regarded as emphatically contradicting the rumours which have lately been current with respect to Mr. Bright's reintroduction into the Ministry, the intentions of the Government in the matter of the 25th clause, and as dashing to the ground all the hopes in which the Nonconformists have upon such slender justification been rash enough to indulge. Mr. Gladstone has spoken in no uncertain tone, and with a decisive straightforwardness that does him all possible credit. The view which he now publicly expounds as his own—and therefore as that of the Cabinet whose policy he directs—of the Education Act of 1870 is that consistently advocated by Mr. Forster, and which the champions of the League, in the spirit of over confident prophecy, asserted the Government had, at the eleventh hour, made up its minds to abandon. The Prime Minister categorically informed his audience at Hawar den that in his judgment voluntary education was best, and that the only duty to be discharged by school-boards was that of supplementing the system. There was, he said, another view which had been taken of the scope and meaning of the Act—that "voluntary education was a temporary expedient, to be got rid of as soon as school-boards could be made universal." From this interpretation Mr. Gladstone, while not denying its legitimacy, expressed his unqualified dissent. School boards, he admitted, were doing a vast deal of good. But we are indebted to voluntary effort, and therefore to denominational energy, for the great bulk of the assistance rendered to the cause of popular instruction in the past; and to sanction a condition of things under which volun tary effort could have no place would, as Mr. Gladstone indicates, be simply suicidal.

The occasion which Mr. Gladstone selected for these note-worthy remarks afforded accidentally a striking justification of his argument. In the parish of Hawarden it appears four-fifths of the necessary education are provided by voluntary effort; the question which the parishioners of Hawarden had to decide was whether for the purpose of supplying the one fifth yet desiderated a school board should be elected, or whether an extension of the existing system should be attempted. Very little hesitation was displayed by the meeting as to the course to be adopted. The establishment of a school-board was negatived, and of the \$6,000 required to provide the school accommodation yet wanting \$3,000 was subscribed or promised before the company had dispersed. There is no reason to suppose that the experience of Hawarden is in any way exceptional, or that the choice of Hawarden is singular. School-boards are not popular in the country, and for two chief reasons—first, because the kind of education whose theory and practice are connected with these bodies is dead against all English sentiment and prejudice; secondly, because the conviction justly obtains that school-boards are essentially expensive in their administration and impose a needless burden upon the local rates. A letter addressed by Canon Gregory to a

of the accuracy of the latter impression. In voluntary schools, Mr. Gregory told us, the cost of providing for school buildings for 86,542 children is \$2,380,000 or \$29 per child; in board-schools the cost of providing for 115,677 children is \$5,500,000 or \$48 per child. "In voluntary schools," Canon Gregory significantly added, "the above outlay includes all that is expended; in board-schools it is considerably increased by staff expenses, cost of collecting rates, &c." Of similar purport are the facts alleged by a correspondent of the Globe, Mr. Stuart, of Munster-square. Whereas in his parish, voluntary schools provide for the education of 900 children, at a cost of \$30,000, the "school board have taken upon themselves to build new schools out of the ratepayers' money to accommodate 750 children, at an outlay of \$85,000." We have as little wish as Mr. Gladstone to include in one sweeping condemnation the establishment and the policy of school-boards in all cases alike. Doubtless, as the Premier intimated, they are in several instances preparing a highly beneficent work, and the conditions are perfectly conceivable under which the election of a school-board is a necessary resource; but the admission that these bodies may be necessary now and again will not bear out the conclusion of the League and the Nonconformists that they should be compulsory and ubiquitous.—(Hour, Aug. 19.)

Dramatic Representations in Schools.

Circular to the Directors of Colleges and Academies in the Archdiocese of Toronto.

I have hitherto tolerated, with much regret and misgiving, the practice of having plays and dramatic representations in our Colleges and Academies.

I was always apprehensive that those wordly enter tainments would give to the pupils an aptitude and taste for the theatre—no inconsiderable evil in itself. Besides, those serious studies, for which children have been entrusted to your care by parents, are very much interrupted in preparing those plays. The pupils themselves, being obliged to be separated from the rest of their fellow-students to practise those plays, are exposed to danger, as well as to lose time from important studies.

The teachers, especially those of religious orders, are more or less secularized and annoyed in trying to infuse into the pupils the spirit of the drama, with attitudes and declamations quite unsuited to them and the pupils entrusted to their care for a real and solid education. Certain parents may be flattered at seeing their children smart and attractive on the stage of a school; but the sensible and prudent would prefer to see their children exhibit proficiency in Geography, History, Reading, Arithmetic, Philosophy, and other branches taught in the Academy.

Only a few of the pupils can be employed in the exercise of a play; and if there be any education to be acquired by it, which is very doubtful, but few can be benefited by it. Correct and elegant reading, so much neglected in schools, recitations, dialogues and speeches well studied and delivered are certainly more improving to pupils, and would please patrons of schools, at these public exhibitions, and be more entertaining than snatched pieces and scenes, even from great authors. I am aware that these theatrical representations are produced in distinguished Colleges and Academies; but I am also aware that distinguished Ecclesiastics and thinking men deplore that any necessity should arise for them.

local rates. A letter addressed by Canon Gregory to a From those very exhibitions in the Midle Ages, though leading contemporary last week contained a signal proof innocent and religious in the beginning, sprang the

theatre of modern times. Many dangerous and evil consequences have arisen from the spirit of the stage acquired in some schools. A very grave responsibility rests with the Prelates of the Church under whose jurisdiction and patronage religious schools exist, to see that piety and purity of morals and solid studies reign in them and all dangers be removed. Teachers have and assume all the responsibilities of pious parents, and they cannot be too careful of the sacred trust confided to their care, for which they must give a strict account. Public schools and Universities became so deteriorated, even in Catholic times, that pious mothers, notably the mothers of St. Thomas of Aquinas, of St. Aloysius Gonzaga, and of St. Francis of Sales, had the greatest repugnance to entrust their sons to them.

No responsibility rests more painfully on my conscience than that of our educational establishments. If in the ages of Faith many became a scandal to the faithful, we must be doubly watchful in our age that our educational establishments, especially those conducted by religious orders, should be as the "field of sweet smelling odour, which the Lord hath blessed" (Gen. xxvii; 27).

Parents must know and be assured that in intrusting their children to the care of religious communities they will be more protected than under the paternal roof. We therefore come to the conclusion that all plays and theatrical representations shall cease in the educational establishments under our jurisdiction.

> + JOHN JOSEPH LYNCH, Archbishop of Toronto.

Something for Teachers.

Practical hints which bear directly upon school-work are always of interest to the progressive teacher. The following, drawn from actual experience in the schoolroom, may assist some inquirer after truth. The great secret of success in school government, is employment. Pupils who are kept employed find no time for mischief. Employment in the schoolroom means something more than mere poring over books. I propose to give a few directions, which if followed will not only keep pupils employed, but also tend to educate them in the higher sense of the word:

1. Have pupils write in their copy-books each day, instead of once or twice a week.

2. See that each scholar has some witten exercise aside from the regular drill in penmanship.

3. Give younger pupils words to print on slates, figures

to make, add, etc. 4. Have each scholar in the writing-class purchase a blank-book. Dictate exercises and have the books kept in the form of a Leger.

5. Give them each day something new to write, such as advertisements, orders, notes, receipts, bills, invitations, descriptions, sentences containing given words, lists of names, problems to analyze, etc.

6. Have larger pupils furnished with drawing books. 7. Have smaller scholars furnished with drawing paper. Give drawing lessons from board. Have pupils practise each exercise on their slates a week, then copy on paper.

8. Encourage the writing of letters. A school post-office may make this exercise more interesting. Some leachers establish a school currency, have their pupils buy and sell, keep accounts and transact all kinds of the skill, inventive genius and tact which would be make ducks and drakes on a broad river-nothing equals

necessary in order to carry it out successfully.

9. Ecourage the drawing of maps. To do this buy a box of water colors and let the children paint their maps. The bright colors witl attract their attention, gain their interest and cultivate their taste.

10. Give your pupils poetry to copy. Select those pieces which contain high and noble sentiments. Thus you will educate their hearts as well as their minds.

11. Encourage your pupils to draw from nature.

12. Have each exercise brought to you as soon as completed. File them away in your desk and return them at the end of the term.

13. Seek variety; as a word admits of many changes of accent and of form, so a thought admits of many methods of illustration.

14. Make study a second nature and school a second

15. Teach your pupils the value of time and encourage

them to improve it.

The above methods, if followed, will lift the wheels from the ruts, smooth the way and cause the machinery of the school-room to run pleasantly and quietly. Teachers give them a trial. E. H. M.—In Rhode-Island Schoolmaster.

Schoolboys' Money.

We have reason to believe that the principals of public schools hold very strong opinions on the subject of boys' allowances. They find several evils spring from the modern habit of lavishness, one of the first being that it is difficult to maintain discipline when servants can be bribed; another being distinct injury to some boys' characters from the self-will which extravagance always generates; and a third being the destruction of that spirit of equality which is the main condition of tone in every large school. A boy with much money is toadied for the accommodation he can give, and a boy with little money is despised because he must avoid doing things his richer confrercs can manage easily. "Money," said the shabby chaplain to Mr. Pickwick, "is pretty much in prison what money is out of it;" and so it is in the playground. Moreover, the tendency of a large proportion of boys towards surreptitions "tuck," sweetmeats, porter, cigars, and what not, is dependent upon their supply of money, and is one which needs restraint sometimes, and in some schools very sharp restrain', in the interest of their health. A lad always after estables never does anything that requires intellectual concentration, and you do not get much out of any boy who has his bottle of porter a day. This is the masters' view, and we believe most masters would, if they knew how, keep up a distinct discipline in the matter of allowances; but there is also another view, and that is of the parent, more especially if he belongs to the educated middle-class. He wants his boys not so much to be thrifty, or careful, or penurious, or even considerate of his pocket, so much as to realize thoroughly what the value of money is, how much it ought to bring, and how it ought to be managed to the greatest advantage, and there is no greater perplexity than the way to secure those qualities. There must be some mode of strengthening boys' character in this regard, as there are modes of strengthening it on other sides, but it is nearly impossible to find it, boys differing in this respect nearly as much as mon. Lord Lytton's sketch of the lad who was caught shying half-Dusiness. This if properly conducted might prove interest-ing and be a success. All teachers, however, have not exaggeration, though we have seen boys use pence to there are boys in hundreds who have nearly reached that stage, who cannot apparently be taught what money means, who have no notion how it goes; who, if given an allowance all at once, will spend it in the first two days, and either run in debt-nearly the most dangerous temptation to which a schoolboy can be exposed—or remain miserable for the rest of term. Others, again, are made extravagant by income. The weekly allowance is felt to be small, is destined for little expenses, and is gone almost before it is received. It makes no impression on the mind, and helps in no way to produce the foresight the want of which is the root of all extravagance. There are boy's again, who manage money as shrewdly as men, some so shrewdly that it becomes a vice—we doubt if there is a public school in which one boy does not lend money at usury-and a few who cannot endure to part with cash, who hoard it as men hoard property. require mental discipline on the subject, just as they require it to keep them truthful, or industrious, or manly; and yet how is it to be administered without doing michief? The master can hardly interfere with a boy's disposal of pocket-money, unless it goes in some way actually forbidden; and though the prepositor, or prefect, or sixth form boy may, if he chooses, give those under him an effective hint, he has seldom sufficient experience to do it. Nor, if they had, do we think the boy-masters, the prefects, could interfere much without harm, though they can and often do cure any tone of extravagance that has infected the school. The father at a distance, is still more powerless, afraid to break his rules, lest his son should lose the first lesson of life, self-control; afraid to keep them, lest the boy should be under a disadvantage with his companions, or be more miserable than the occasion requires. He, as a rule, ends by breaking his own rules, and in losing all real influence over the matter. There is a want of some system which should give the father and the boy a clear idea of what is needed, and what ought to be avoided, and any experienced master who issued a little tractate on the subject would do a real good to the community.

It is admitted on all hands that there is a point of extravagance in boys' allowances which must be checked at all hazards. Dr. Arnold refused two promising pupils because a doting mother insisted on allowing them \$500 a year, and any sum of any substantive amount involves moral dangers which no master of experience would for a moment permit to exist. The absolute poverty, again, once common enough in old grammar schools, and in Scotland, and in schools just below the public-school standard, though invaluable in creating the capacity for "doing without" which it is the curse of our new generation to lack, is all but impossible now, and we question if it would be healthy if it were possible. It pays if the home is very poor, but if it is not, it seems unjust and irritating, while it produces almost invariably a thirst for money as the end of life. Besides, if its consequences were ever so good, it would take too much out of the period of life which to half mankind—at least the half who have healthy stomachs and strong frames and a good thick hide over their nerves—is the happiest of all. If wearing hair shirts for five years made boys work harder, we should not give them hair shirts. Considering how infinitely little pleasure most men have in their lives, it is not worth while to begin worrying too soon. What is wanted is some sort of system by which a boy can be allowed money, and yet learn something of its use as he will have to learn it in the world, -not in the way of economizing or accumulating, so much as of arranging

an old penny, unfortunately, for that amusement—but under sixteen is to allow so much a week, settled usually by the custom of the school, and a sovereign a term, subscriptions being paid separately or not, pretty much according to the class of school. The effect of that arrangement is that the lad has never to deny himself in the first month, and is always being bored by his want of means in the last two months. What is wanted is to enable him to have money to save if he wishes, for any great occasion, and money to go on with, and we believe by far the best way would be to reduce the whole allowance to income, but pay it month by month, instead of week by week. Most boys would thus obtain from 10s. to 12s. a month, a sum high enough to be appreciated, yet not issued at such intervals that they would not feel the consequences of immediate extravagance. It would be given them seldom enough to suggest economy, yet in amounts large enough to make good management seem of some "use" and comfort to their souls. It would, in fact, teach them "management," a virtue in which the new generation seems likely to be as deficient as the late Marquis of Hastings or the half-dozen of eldest sons who have recently passed through the Bankruptcy Court.— Spectator.

Reading Aloud.

We know of no accomplishment so valuable as that of reading "with good emphasis and discretion," of catching the meaning and spirit of an author, and conveying them to others with a distinct and intelligible utterance; and yet, strange to say, there is no department of modern education so much neglected. Indeed, so general is this ueglect that scarcely one young lady or gentleman in a dozen, who boast of having "finished" their education, can, on being requested, read aloud to a private company with that ease and graceful modulation which is necessary to the perfect appreciation of the author. There is either a forced and unnatural mouthing, a hesitating and imperfect articulation, or a monotony of tone so tho roughly painful that one listens with impatience, and is glad when some excuse presents itself for his absence. Whatever may be the imperfections of our school tuition, this defect is rather to be attributed to a want of taste, and consequent neglect of practice on the part of grown up individuals, than to any defect in their element ary training. There may be a deficiency of good models; but the main difficulty arises from the unequal value which seems to be attached to good reading as compared with music, dancing, painting, and other fashionable acquirements.

That the art of reading aloud is at the low ebb we mention, any one can readily convince himself by requesting his friend to read for him the last speech of the American President. Twenty to one, he will find his friend an apt enough scholar, but a careless and indifferent enunciator—one who has all along read for himself, and whose only object has been merely to acquire the meaning of the works he perused. Reading aloud should be cultivated as one of the most useful and attractive of domestic accomplishments. Gathered round the winter's fire or evening lamp, what could be more cheerful for the aged and infirm, what more instructive to the younger branches, or what more exemplary to the careless, than the reading aloud of some favorite author.

Singing for the million is cried up on all hands—why not reading aloud? We have in almost every family and workshop evidence of what practice in concert has done for yearly expenditure, and for this object we suspect all existing for vocal music why not the same for reading aloud arrangements are wrong. The regular practice with lads The one is chiefly valued as an amusement and refining as necessary for the adornment of public or private life, and certainly more directly productive of utility and knowledge.—Chambers' Journal.

Precocity of London "Arabs."

Juvenile depravity seems, from the following remarks of the London Daily News, to be increasing in the British

'Most family circles have their stories of juvenile depravity-of atrocious young persons of five smashing their sisters of three, or trying to set fire to the house in the absence of the nurse. These occurrences are regarded by fond parents and indulgent aunts as highly amusing; the expectation being that all such wickedness will disappear by the time that knickerbockers are wanted. But what are we to do with criminals of ten or a dozen years of age, and both sexes, who challenge the attention of the police, and puzzle the judgment of the most welldisposed magistrate? Yesterday a series of these instructive, if not entertaining, cases came before the courts.

At Bow street, a small girl of ten was charged with stealing a purse; a school-board officer stating that he had seen this precocious delinquent try the pockets of over fifty ladies. She was ostensibly selling matches, while really pursuing a more lucrative, if more dangerous, calling. At Hammersmith, a boy of fourteen was convicted of having been drunk and incapable. He was fined five shillings, just as if he had come to years of discretion, although the glory of the sentence was somewhat dimmed by the magistrate directing the policeman to tell the boy's mother of the affair At the Thames' police court another boy, aged thirteen, was charged with threatening to murder his mother, who said she went about in bodily fear of personal violence. It seems to us that a little personal violence, administered judiciously, and in time, would put an end to a good many of the juvenile freaks which seriously perplex our magistrates. A sound thrashing is about the best antidote possible for all the poisonous stuff imbibed from the temper it is, indeed, about the only correction that can be employed. In such cases, parents are fortunately allowed to take the law into their own hands, and if they did so with a little more determination, we should have fewer of those cases in which the majesty of the law is invoked to supply the place of a proper domestic control."

The Reading-Room of the British Museum.

With all the English conservatism and hesitation in establishing popular institutions, and love of restricting and hedging about with conditions and qualifications great public privileges, no city of our Republic can show a more substantial or more liberally managed public benefit than this reading room. The reality of its freedom, its order, and its entire adaptability to answer its purpose, impress one. Here is one place where, without fee or favor, the humble student and the foreign scholar may partake of, and luxuriate in, the wealth of England; may participate in the marvellous range of lore, in every tongue, of every art and science, which her wealth, nobly bestowed, has collected. I can think of no happier destiny for the ardent lover of books, for a historian, a man of science, a statistician, a novelist, or a mere student, many other things which it is a waste of time to commit

accomplishment; the other is equally entertaining, quite absorptive but not fruitful, than to have cozy lodgings in the vicinity of Russell Square, a satisfactory English landlady, and a ticket—daily used—to the reading room. He may sit in one of the roomy fauteuils as luxuriously as the West End lord in his velvet lined mahogany, and may look around with a sense of ownership (for their use and fruits are freely his) upon a far prouder possession of learning than the greatest West End lord can boast. He is in goodly company; for here burrow, almost invariably, the scholars, romancers, philosophers of England. He sits, co-equal in his privileges, with the British aristocracy of brain. He is served as faithfully and as quickly as is the minister of state by his favorite private secretaries. There is the whole day long to revel, uninterrupted if he will, in his beloved studies, in a tranquil and studious sphere, out of hearing of the bustle of the streets, though here is busiest London roaring all about him. If he grows weary, for the while, of his books and the quiet, he may walk and wander through those seemingly endless corridors where are literally crowded the antiquities of Egypt and Phænicia, of Antioch and Afghanistan, of Athens and Rome; where are collected the marvels of geology and of mechanical science, of biology and the arts, ancient, mediæval, and modern. He may read up his subject in the reading-room, and stepping into a neighboring corridor, find it practically illustrated in the glass cases which surround him.—Harper's.

The Use and the Abuse of Memory.

There is hardly anything in which our educational system is more faulty than in the use it makes of the memory. Children are made to remember when they should be taught to comprehend; they learn words when they ought to be gathering ideas; they memorize rules when they should master principles The thing called memory is a wonderfully capable and obliging servant, willing to do its own work and that of all its fellows, and as it is more softly shod than they, and readier of hand and eye, both teacher and pupil accept its service altogether too largely in almost every case, and the results penny romances; and in the case of a radically bad invariably are imperfect scholarship and bad mental habits.

The fault is not confined to the school-room by any means. Throughout life we abuse and maltreat the memory requiring it to do not only its own work but that of half the other mental faculties as well, and when it fails us from sheer exhaustion we complain of our "treacherous memory." Any one who will take the pains to observe carefully, will discover that in more than half the cases a bad memory is simply a memory which is required to

do that which it is not its business to do.

It is the office of the memory to receive and retain whatever we commit to its keeping, and this any ordinary memory may be trained to do. But while we may culti-vate the faculty to almost any conceivable extent, people who have anything else to do in the world cannot afford to waste time in training one faculty to do the work which properly belongs to others, even if the result were not, as it invariably is to weaken the other and more valuable ones.

We should commit to the keeping of memory those things which it is uccessary to intrust to it, and those only, sparing it unnecessary burdens, not so much because they are unnecessary and burdensome as because they are often essential to the well-being of other faculties of the mind.

In addition to matters of this class, however, there are

to memory, simply because they are not often needed at all, and may be readily had from books whenever wanted. Every book-keeper might learn his ledger index by heart if he saw fit to do so; but as it is a thing convenient of reference, he has no occasion to do anything of the kind, and to do so would be to misuse time sadly. The same is true of a hundred other things, chief among which, as a stumbling block to childhood, is the matter of dates in history. Of the many thousands of them which are given even in school histories, hardly a dozen are ever wanted after the recitations have been finished, and when one is wanted, a dictionary of dates furnishes it unerringly, and with a far smaller consumption of time than that which would be necessary to the memorizing of an elaborate chronological table, even if the table could be retained in the mind with any degree of certainty, which

In reading history, of course, a general and approximate memory of the chronology is necessary to a proper comprehension of the text, but this may be had in many ways without the trouble of remembering exact dates, and when it is secured it is a far more permanent guide than a bald memory of figures can possibly be.

We have before us a letter, in which a very excellent plan for the accomplishment of this is suggested. It is from a lady of more than ordinary ability to a friend who is engaged in the preparation of some chifdren's histories to whom she says: "Let me put in a plea for poor persecuted childhood. Do not, please do not, put any dates into your books; or, at any rate, put in as few as you can get on with. They were the bane of my schooldays, but I am glad to know that I do not remember one of them now. When I began to read history for myself, I always shut my eyes when I came to a date, and rejoiced in the conviction that the author had been compelled to look it up in some book or other before writing it. But as history is almost worthless if not studied comparatively, I use the History of England—with which school drilling has made me familliar—as a chronometer (the reigns of the kings forming the divisions on the dial), and I make the history of all Europe keep time to it. The plan may not be the best one for the purpose, but it is certainly better than to consume all of my time in the study of dates."-Hearth and Home.

Little Things.

We cannot have it repeated too often what we all know and feel to be a great and important truth, but still what we are too prone to forget and pass by lightly, viz; that the human character, in all the stages of our existence, but especially during childhood, is moulded and formed more by the little things of life than the great ones. Were this more justly appreciated and acted upon in the education of our children, it would have a most salutary effect upon their character. Numberless small things happen in our every day life, so trivial in themselves in dividually, that they hardly strike us at the time, and we little dream of the influence they are exercising on the minds of our little ones. We will take for example a habit which will doubtless come home to almost every one of us-both fathers and mothers. We often correct a fault, or prevent one being committed, without at the same time taking any measures to see that our wishes are obeyed-or without paying any further attention to the subject, allowing the fault to be repeated with impunity, perhaps from indoleuce or a disinclination to be con-stantly reproving. The child knows what it is doing is Thomas Carlyle expressed a hope that armies of men

parents: but still sees that it can continue without further reproof or correction. The effect of this is most injurious to the child, and a habit is acquired which strengthens from repetition with impunity, of neglecting and undervaluing justice and a knowledge of what is right, and which will undoubtedly extend to the large as well as the little thiugs of life. This is only a specimen of these little things which occur constantly, far more so than the great things, and which have a far greater and more potent influence in moulding the character than we give them credit for. It has been said, and with very great truth, that the most important duty of parents is to keep their word with their children, and act up without fail to their decisions. It would be far more preferable and far less injurious to children that parents should never make any decisions than that they should not be acted up to.—Exchange.

What Will You take for Yourself.

It is said that every man has his price; young man have you yours? Will anything at all buy you? Will you even sell yourself by a little deceit, a little falsehood, by evading the truth to gain somebody's favour, to raise you in somebody's opinion, or to accomplish some desired end? Will you even so far forget yourself, your manhood, your friends, your position in society, your best interests, as to thus sell yourself for the favor of another?

Doubtless, you now spurn the thought, and yet have you not often done so? Be careful, be honest in reply. Answer only as the little voice within prompts. Remember that it is of daily occurrence with mankind. Others, who think they are just as good, just as strong in character, who value themselves just as highly as you,

are daily selling themselves.

Will you prove yourself a man, and talk, and act, and live like a man? Will you even countenance by your approval, by your influence, by your patronage that which in your heart you know to be wrong, for fear of giving offence, for fear of losing somebody's favour, of subjecting yourself to somebody's cutting jest? If surrounded by the jovial associates of former days, where the convivial bottle is freely passed, and you are urged to partake of an extra glass, can you, even if there be none present to expose you to those whom you know think better things of you, say 'No?' Can you, everywhere, under all circumstances of temptation say 'No!' If you can then indeed do you possess true nobility of soul; then indeed may your friends safely lean upon you and feel proud of you.

Even those whose solicitations to evil you have refused to accept, will respect and love you more because you are proving yourself a man. They who sustain such a character are building upon a rock, and will find themselves surrounded by friends comprising the best and noblest of mankind. All love you because they know they can trust you. Let your price be above earthly treasures or temptations, and you will thus gain not only nobility of character and soul but the respect and love

of all the pure and good.—Bow Bells.

The British Army.

wrong, and that it is against the expressed wishes of its trained to fight and kill one another would some day

give place to armies of industry, commanded by captains of industry, who should subdue the earth in a way very different from that of the slaughterers. In one sense, the hope expressed by the deep-thinking author is about to be realised, for the British army is becoming a working army. Every man who enlists may, if he will, learn a trade, the choice being left to him; and thus at the same time that he is subjecting himself to discipline, and acquiring habits of obedience, he may become an artificer, skilful or not, according to his capabilities. It is one of the miseries of a soldier's life in time of peace that during one half of his time he has nothing to do, and he frequently falls into mischief in consequence. By the new system he will be saved from this misery, and be taught a good trade in addition to military duties; so that should he desire to quit the army at the end of his term, he will be well qualified to earn his living, and to prove himself a useful member of society.

OFFICIAL NOTICES.



Ministry of Public Instruction.

APPOINTMENTS.

LAVAL NORMAL SCHOOL.

The Lieutenant-Governor,—by an Order in Council, dated August 26, 1873,—was pleased to appoint M. Rosario Saucier, Professor in the Laval Normal School, to replace M. P. Hudon, resigned.

MEMBERS OF BOARDS OF EXAMINERS. KAMOURASKA.

The Lieutenant-Governor,—by an Order in Council, dated August 27, 1873,—was pleased to appoint Louis Charles Begin, Esq., a Member of the Kamouraska Board of Examiners.

CHARLEVOIX AND SAGERNAY.

The Lieutenant-Governor,—by an Order in Council, dated August 27, 1873,—was pleased to appoint Jean-Baptiste R. Dupont, Esq., a Member of the Charlevoix and Saguenay Board of Examiners

SCHOOL COMMISSIONERS.

The Lieutenant-Governor,—by an Order in Council, dated August 8, 1873, was pleased to make the following appoint-

ments:
St. Valère, Co. Arthabaska:—The Revd. M. L. Elie Dauth

and M. Urbain Vigneau to replace themselves; St. Cuthbert, Co. Berthier:—M. Joseph Dudemène to re-place M. Onésime Plante, and MM. Simon Savoie and Hilaire Chaurette to replace MM. Napoléon Allard, fils, and Henri Vadenais;

Baie Sud, Co. Gaspé: -MM. William Wakeham and Philip

Bechervaise ;

Newport, Co. Gaspé: -- M. Jean Cormier to replace M. Joseph

Grenier;
St. Jérôme (Village). Co. Terrebonne: -MM. Godefroi Lavio-

lette and Joseph Amable Hervieux, to replace themselves; St. Michel (No. 3.), Co. Yamaska:—MM. Antoine St. Germain and Isaac Mondoux to replace MM. Louis Girard and Michel

Arèle;
St. Michel, (No. 4), Co. Yamaska: -MM. Olivier Salva and
Nu. Joseph Labonté and Pierre Henri Lambert, to replace MM. Joseph Labonté and Pierre Hébert ;

St. François (Parish), Co. Yamaska:—MM. Jean-Baptiste Mahère and Edouard Despins, to replace themselves.

The Lieutenant-Governor, by an Order in Council, dated August 27, 1873, was pleased to make the following appointment:

St. Cajetan, Co. Bellechasse: -M. Jean Baptiste Fradet, to

replace M. Pierre Isabelle;
Harvey, Co. Chicoutimi:—M. Adolphe Boudreau, to replace

M. Lucien Bouchard; Ste. Scholastique, (Parish), Co. Two Mountains:—MM. Louis Cléophas Leduc and Maxime Laviolette, the former to replace himself and the latter to replace M. Joseph Fortier;

St. Malachie (No. 1), Co. Dorchester:—The Revd. M. W. Richardson and M. François Lafontaine, to replace themselves; Grande Grave, Co Gaspé:—M. William Robert, to replace M Charles Esnouf;

Lachine (Town), Co. Jacques-Cartier:—MM. Clément Deschamps, Thomas Chapman, Alphonse Gariepy, Jean Baptiste Cavour, and Jean Baptiste Leger;
Lachine (Parish), Co. Jacques-Cartier:—MM. Jean Baptiste Onésime Martin dit Ladeucceur, Maxime Latour, and Jean

Baptiste Légault;

Ste. Agathe (No, 2). Co. Lotbinière :- M. Etienne Morin, to

replace himself;

ireland (South), Co. Megantic; -M. James Byrne, to replace M. Patrick Baily, and M. William McFarlane to replace M. John Porter;

St. Anaclet, Co. Rimouski .—MM. Joseph Lavoie and Fran-çois Lemieux to replace MM. François Roy dit Lauzon and Germain Vignola;

Canton de Saguenay, Co. Saguenay: - MM. Alexandre Tremblay and Pierre Poitras, to replace Onésime Savard and André Daignault dit Laprise; Ste. Brigitte des Sauts, Co. Yamaska:—MM. George Lavallée

and Martin Purtell, to replace MM. James Purtell and William Shawken;

St. François du Lac, Co. Yamaska: -MM. François Verville and Isaac Desmarais, to replace MM. Edouard Despins and Jean Baptiste maher.

SCHOOL TRUSTEES.

St. Jean Baptiste Village, Co. Hochelaga: -Mr. Joseph Thomas to replace Mr. John Seybold;

Aylmer, Co. Ottawa: -- M. Luther Eddy, to replace M. William

McLean.

SEPARATIONS, ERECTIONS, ANNEXATIONS, &C., OF SCHOOL MUNICIPALITIES.

The Lieutenant-Governor, - by an Order in Council, dated August 20, 1873,—was pleased

To detach, from the School Municipality of Lachine, the Town of Lachine and erect the latter into a separate School Municipality to be known by the name of the "Town of Lachine "

The Lieutenant Governor,-by an Order in Council, dated

August 27, 1873,—was pleased
To annex to Tingwick, in the County of Arthabaska, the south-east half and the South half of lot eighteen in the first Range of this Municipality; the South east half of lot nineteen of said first Range and the South half of the quarter of lot seventeen, at present forming part of Warwick for school purposes; lot eighteen of the second Range, and the three-fourths of lots nineteen and twenty of the second Range of

To erect, into a School Municipality, the new parish of St. Eugène, in the Co. of L'Islet, to be known by the same name

and to have the same limits;
To detach the Town of Nicolet, in the Co. of Nicolet, from the rest of the Parish and erect it into a separate School Municipality with the same limits as assigned to the town for civil purposes:

To define the limits of Ste. Rose du Dégelé, in the County of Témiscouta, (not clearly set forth in the Order in Council of September 19, 1872) as follows:—

I. All that part of the Seigniory of Madawaska, to the west of Lac Témiscouta and on the river Madawaska, running eastward as far as Iac Temiscouta, westward the depth of said Seigniory as for as the Crown lands, northward to the Parish of Notre Dame du Lac and a line parallel as far as the depth of said Seigniory, southward to the Province of New Brunswick;

2. That part of the said Seigniory of Madawaska lying to the west of Lac Témiscouta and the river Wadawaska, westward for the said Lake and river, eastward to the Crown lands, northward to a line parallel to that which divides Notre Dame du Lac, and southward again to the Province of New Brunswick

To change the limits assigned to the School Municipality of the Canton of Chambly, in the County of Chambly, by Order in Council of June 23, 1878, to the following:—

All the lands comprised in the Municipal Corporation of the Canton of Chambly, the lots adjacent to said Municipal Corporation taken on the rural lands of the Parish of St. Joseph de Chambly, being the lands known and designated on the plan and the Official Book of reference, as deposited for registry purposes in the county of Champlain, namely; the lots three hundred and one, three hundred and three, three hundred and four, three hundred and nine, three hundred and eleven, three hundred and thirteen, three hundred and fourteen, three hundred and fifteen, three hundred and six, three hundred and five, and three hundred and ten.

DIPLOMAS GRANTED BY BOARDS OF EXAMINERS.

Session of August 5, 1873.

ELEMENTARY SCHOOL DIPLOMA, First Class (F) :- Miss Elise Bélanger.

Second Class: - Miss Délise Veilleux.

J. T. P. PROULE, See'y.

CHARLEVOIX AND SAGUENAY.

Session of August 5, 1873.

ELEMENTARY SCHOOL DIPLOMA, First Class, (F): - Misses M. Anastasie Chouinard, vias Dallaire, Louise Iachance, Sumanne Lavoie, and Philomène Tremblay.

CHs. BOIVIN, Sec'y.

KAMOURASKA.

Session of August 5, 1873.

ELEMENTARY SCHOOL DIPLOMA, First Class (F):—Misses Emélie Bêrubé, Heloïse Bérubé, Clara Bouchard, Démérise Boucher, Adèle Levêque (F & E), Adèle Levasseur, Géraldine Rioux, Zoë Sirois, and Mary Smith.

Second Class: - Miss Appoline Deschênes.

J. G. PELLETIER, Sec'y.

MONTREAL (PROTESTANT). Session of August 5, 1873.

ELEMENTARY SCHOOL DIPLOMA, First Class (E):—Misses Lillian S. Anthony, Janet Connelly, Beatrice D. Graham, Louisa W. Graham, Mary Mitchell, and Mrs. Mary Haney.

Second Class:—Messrs. Robert G. Hall, Robert Scholefield,

and Miss Ann Eliza Trepania.

T. A. Gibson, Sec'y.

MONTREAL (CATHOLIC). Session of August 5, 1873.

MODEL SCHOOL DIPLOMA, First Class (F): -Misses Selfrid Brunet, Philomène Chatel, Mrs. M. Delina Hamilton, Mrs. Peladeau, and

Celina Lapierre.

ELEMENTARY SCHOOL DIPLOMA, First Class (F. & E): - Misses Mary Archer, (F): - Joséphine Bédard, Victoria Bélanger, Louise Bernard, Marie Louise Blanchard, Richel Boursier, Fidélie Bro-Bernard, Marie Louise Bianchard, Ricchel Boursier, Fidelie Brodeur, Alphonsine Demers, Virginie Désert, Octavie Favreau, Céline Gaudet, Marie Anne till, M. Eloise Goulet, Emélie Guerin, Alphonsine Guertin, Aulia Hubert, Arselie Huot, Pulcherie Jacques, Joséphine Jordan, Vitaline Lajoie, Agnes Lereux, Odile Macé, Elmina Macé, Juliana McCarthy (F. & E.), Maria McCarthy (F & E.), Elizabeth McCallum (E.), Hermine Paré, Marie Phaneuf, Rose de Lima Ray, Eugénie Tremblay, and Sarah Ward.

Sarah Watu.

Second Class: — Misses Elizabeth Bonin, Délima Brisebois,
Joséphine Bille, Marguerite Clavel, Laure Cadieux, Elvina
Cormier, Marie Louise Dulude, Marie Dumenlong, Mélina Gauthier, Anathalie Giroux, Salmée Gregoire, Marie Lachapelle Langlois, Agnes Lebœuf, Amanda Leblanc, Hermenie Peloquin, Emélie Poirier, Ludivine Poulin, Cléophie St. Laurent, and Mathilde Vinet.

F. X. VALADE, Sec'y.

QUEBEC (CATHOLIC).

Session of August 5, 1873.

Model School Diploma, First Class, (E. & F.) :- Miss M. Emilie Demers.

ELEMENTARY SCHOOL DIPLOMA, First Class (E. & F.):—Mr. Joseph Henri Audibert, (F):—Misses M. Zélire Bergeron, M. Hedivige Boisvert, Rose de Lima Demers, M. M. Césarie Tradet, Obéline Gosselin, M. Léa Houde, Félixine Labrecque, Sara Lachaine, Paméla Alphonsine Lacombe, Adéline Pichet, Clarisse Bompré, Adéline Roy, Adèle Thibodeau, (E.):—Sarah Jane Bryson, and Margaret Bamford.

Second Class (E.:—Misses Philomène Rlais, Marie Fugère, M.

Second Class (F):—Misses Philomène Blais, Marie Fugère, M. Fédéra Virginie Germain, Dorothée Hardy de Chantillon, Arzelie Hébert, Delvina Cléophee Lachance, M. Antoinette Lamothe, Victorine Lauzé, Célina Marcoux, M. Georgina Plaisance, M. Anaïs Plaisance, Rose Roberge, M. Eléonore Routhier, and Ellen Duff (E).

N. LACASSE, Sec'y.

RICHMOND (CATHOLIC).

Session of August, 5, 1873.

ELEMENTARY SCHOOL DIPLOMA, First Class (F):—Miss Helène Emma Guertin, Mary Ann McNamara (E), Olivine Ouellette, and Eugénie Talbot.

Second Class:—Philomène Bénoit, Rosa Ducharme, Mary Jane Gorman (E), Mary Ann McNamara, and Eugenie Talbot.

F. A. BRIEN, Sec'y.

SHERBROOKE.

Session of August 5, 1873.

ELEMENTARY SCHOOL DIPLOMA, First Class (E) :- Misses Margaret McKay.

Second Class: - Misses Caroline S. Cowan, Maggie Cowan, and Odile R. Richard.

S. A. Hurd, Sec'v.

THE JOURNAL OF EQUIPATION.

QUEBEC, AUGUST & SEPTEMBER, 1873.

The Hon. G. Ouimet's first Visit to the Laval Normal School.

On the 30th May last, the Laval Normal School gave 2 literary and musical soirée on the occasion of the first visit to that institution of the Hon. G. Ouimet, after his appointment as Minister of Public Instruction.

The half was filled by a large and select audience, and a most agreeable evening's entertainment was afforded, at the close of which the students in training presented an address to the Hon. Mr. Ouimet, of which the following is a translation:

The Hon. Gédéon Ouimet, Minister of Public Instruction and Premier of the Province of Quebec.

Permit us to offer you the expression of our thanks for the honour you have done us in thus visiting the Lavel Normal School in your official capacity of Minister of Public Instruction

Although not unmindful of your high position as Premier of the Province, still it is more particularly with that of Minister of Public Instruction that we feel called upon to

express our opinions.

We were already aware in what high esteem you were held by your honourable predecessor in office and founder of the Normal Schools, Mr. Chauveau, and of whose cabinet you formed a member.

When we learned some time ago that you were going to preside over the department of education, we were happy to hear that your private qualities and acts of benvolence were such as to command the esteem of those who enjoyed your intimacy. These are qualities you will often find the opportunity of exercising in our favour, as we require your protection and indulgence.

Finally, we would ask you to accept the expression of our best wishes for your success; and believe that we shall use our endeavours to cooperate in the good work of education, and that we shall carry, to the accomplishment of our duties as teachers. all the zeal and energy that you and the country have a right to expect from us.

The following is a translation of the answer returned by the Minister:

Messieurs the Students-in-Training at the Laval Normal School:-

Gentlemen,

I accept with pleasure the expression of your good will which you have tendered me in terms so flattering, too flattering, I am afraid, in what relates to me personally.

When His Excellency, the Lieutenant-Governor, entrusted to me the duties of an office, that had so long been discharged by my honorable predecessor, with such advantage to the department and such credit to himself, I did not conceal from myself the weighty responsibility that attached to it. I knew I was to succeed our first two superintendents of education whose learning and qualifications have been so justly appreciated, and one of whom, the Hon. Mr. Chauveau, is recognized as one of our leading men in politics and literature. In the relations that I had with him during the six years that I was a member of his administration, I became convinced of the importance he attaches to the spread of education, and particularly to the success of the Normal Schools of which he was the founder, and whose infant steps he guided to manhood. I knew also that the great statesman, whose loss we to-day deplore, the lamented Sir George Etienne Cartier, had given his powerful aid towards the establishing of these schools which he considered the very basis of a good system of education.

Hence, gentlemen, you can well believe that it was not without some misgivings that I accepted charge of the Ministry of Public Instruction, the duties of which office are not only arduous but peculiar especially for one who has not made a special study of the subject.

However, being a sincere friend to education, I believed that

with a strong will and a devotion to the work, I could, if not do great good, at least, carry on the work of my honorable predecessor by endeavouring to follow in his footsteps. I agree with him in believing the Normal Schools not only highly useful but I believe them to be indispensable to the preparation of good teachers. In this I am borne out by the testimony of all civilized nations who have given any attention to the great question of the proper education of the masses. It is in reality a duty of the state to select good teachers, and to take every possible care in the training and preparation of those to whom the youth of a country is entrusted; those who are to mould and form the minds of the young; those who are not nly to instruct in science, but who are to be guides in morals and religion, the very bases of a sound education.

Gentlemen, you are called upon to take charge of the youth of the country, a splendid army but one difficult to man cuvre. The late Emperor of the French called you, (the teachers) "the Army of Peace." You are not only to discipline and instruct for the duties of life, but you will, whether conscious or not of it, give an impulse and a bent to each mind that will play an important part in his after-career through life.

The youth of a country is a part of the cargo of the ship of State, how necessary and important then that each could not only act as pilot but even as captain, should the necessity arise! What a noble, but what a difficult, task! You, no doubt, gentlemen, understand the importance of it, by your coming here to perfect yourselves in the art of teaching, that you may after-wards give your pupils the benefit of those instructions of which you seem to have profited so much.

You have attributed to me certain qualities for which I kindly thank you, not, however, overlooking your generous exaggeration of them. But there is one thing, however, of which you may be assured and that is, that you have the earnestness of my good will in your behalf, my wish that the institution may pros-Per, and my ardent hope that when you leave you will devote yourselves to the noble profession of teaching which you have

had the courage to select.

The Hon. Mr. Chauveau, being asked to say a few words, kindly consented and delivered one of those improvised discourses peculiar to himself,—and so terminated a most agreeable evening's entertainment,

Ladies' Humane Education Committee, Montreal.

This Committee, established in connection with the Canadian Society for the Prevention of Cruelty to Animals, is formed for the promotion of the systematic education of the young in the principles of humanity, and by early training to inculcate in their minds the duty of kindness and consideration to all dumb creatures.

With this object in view the Committee has organized a plan of operations similar to that established by the Ladies' Humane Education Committee in London under

the Presidency of the Baroness Burdett Coutts.

The Committee first desire to obtain the co operation of the School-Masters and Mistresses of the Province, and to this end an address will be presented to the Minister of Public Instruction for permission to introduce certain specified text-books into the schools under their control. These text-books are those which are now in use in the schools in England and France. The Committee will also send an appeal to all the teachers in the Province, requesting them to inculcate the principles of humanity and kindness upon the children under their care, and recommending to their notice the method pursued, with eminent success, by Monsieur de Sailly, a French teacher in Algiers.

It is proposed to offer prizes for the best essays on the subject of kindness to animals, to be competed for annually

in each school.

The Committee will also recommend, as an effectual method of awakening the interest of the young in schools, etc., the formation of societies for the protection of dumb

animals, and particularly of birds, their nests and young.

The good objects for which the Committee is laboring can be materially assisted by the ladies of Montreal, who are now invited to associate themselves with the work of the Committee. This is peculiarly a sphere of action in which women's influence can be advantageously exercised, as they have opportunities for awakening and training the sympathies of the young, in families, schools, and charitable institutions. A subscription of one dollar constitutes membership. The money obtained from the members' subscriptions will be expended in prizes, rewards, periodicals, etc., and the necessary expenses of the Com-

The Committee urgently request heads of families to subscribe either to the Animal World, a monthly periodical published by the London Society for the Prevention of Cruelty to Animals (at 75 cts. per annum), or Our Dumb Animals, published in Boston (at 75 cts. per annum), and cause these papers to be read in their families. Both these periodicals can be obtained at F. E. Grafton's. The Committee will place copies of their text books and of suitable periodicals and pamphlets, etc., gratuitously in all charitable institutions entrusted with the care of boys

The labors of this Committee are wholly of an educational character, and as such are distinct from the punitive work of the Society to which they are attached.

The ladies trust that when the objects of their Committee become known to the public they will be enabled to enlist the sympathies of all in its behalf, and they would call upon all to aid them in their labors by instilling into the minds of the young under their charge the duty of kindness, humanity and mercy to all dumb creatures.

> ISABELLA ALLAN, President. ANNE McCord, Sec. Treasurer.

Montreal, 3rd June, 1873.

Report of the Minister of Public Instruction for the Province of Quebec for the year 1871 and in part for the year 1872. (1) (Concluded from our last.)

In the following table, in which appear the figures relating to the number of pupils who are learning the princi pal branches of primary instruction, a slight increase will be observed over the figures given in the report of 1870.

1	1871	103129	124262	79300	32912	119508	68615	86132	55120	11078	61243	73954
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ury im		101212	112220	11011	31808	80709 94767 99500 102158 119508	69288	85209	54737	10852	65633	71972
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E of the number of children, learning the more essential branches of primary instruction, since the year 1853.	1853 1864 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1863	98706	111709	76264	30648	:	4412 9283 16439 26310 34064 40733 44466 46872 49460 50853 52214 60311 66237 66341 68172 69288 68492 68718 68615	84201	53726	799 1976 5012 5500 6689 7135 7319 9347 9614 9630 9610 10381 10430 16825 10852 10903 11024 11078	64998	6738 11486 15520 17580 26147 42316 45897 46324 51095 54461 59024 66894 71153 71453 71965 71972 72204 72856 73554
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ildre si	1858	52099	65404	43307	15348	37722	40733	55847	28196	6899	37847	42316
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nu ə	1855	43407	58033	23266	9004	32512	16439	30631	22586	1976	17700	15520
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The tables Nos. 4 and 5 relate to the various kinds of assessments. They show, as appears above, a slight increase in all the columns, with the exception of that which refers to buildings and repairs.

TABLE of sums levied for Public Instruction in the

Province			356 to 1870		
Year.	Assesment to equal Grant,	Assessments over and above amount of Grant and Spe-	Monthly fees.	Assessment for the erection of buildings.	Total raised.
1853 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1819 1870 1871	\$ cts 113884 87 113887 08 115185 09 115792 51 114424 77 1139 9 29 110966 74 110534 22 110534 22 112158 34 112447 08 113790 64 123381 08 124002 18	93897 96 78791 1' 88372 65 109151 96 123939 66 130560 96 134033 1: 134888 56 147158 2: 153732 96 194 98 56 197 18774 06 201211 9 233773 1	7 208602 37 9 231192 65 3 251408 41 2 264089 11 5 281980 23 0 307538 14 3 324601 87 8 356691 53 8 394068 37 452868 37 452878 70 7 529193 12	22928 G3 24646 22 22883 57 15778 23 17000 00 15798 84 11749 74 15 53 12 13041 57 22985 32 24117 46 47986 17 91446 03 90441 24	459386 (5 498436 48 503859 73 526219 83 542728 97 564810 65 573264 37 597448 76 €37067 18 738494 05 7928 9 52 894-57 18 976788 61
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s the diff, and 186, 1.	Alonthly fees.	\$ cts. 13399 16 3768 67 31733 36 37376 84 58800 32 10706 01 56619 42
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ces wher and 186; 1867, 6.	Assessment to	\$ ctr 1624 09 283 75 1210 26 251 29 219 00 9834 83 244 38 621 11
TABLE shewing the sources whence comes the difference of increase between 1. 1864 and 1863, 2. 1865, and 1864, 3. 1866 and and 1866, 5. 1868 and 1867, 6. 1869 and 1868, 7. 1870 and 1869	Year.	Increase of 1864 over 1863. Increase of 1865 over 1864. Decrease of 1865 from 1864. Increase of 1867 over 1865. Increase of 1868 over 1865. Decrease of 1868 over 1867. Increase of 1868 from 1867. Increase of 1869 over 1868. Increase of 1870 over 1869. Decrease of 1870 over 1869. Decrease of 1871 over 1869. Decrease of 1871 over 1869.
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This decrease for school buildings is explained by the fact that considerable expenditure had to be incurred during the previous year for the same object, particularly in the City of Montreal.

The Normal schools gave as satisfactory results as in previous years. The principals of these institutions state in their reports that want of accommodation did not allow

them to comply with all the demands for admission.

The following table gives the comparative number of Students of each Normal school since its inauguration.

⁽¹⁾ By the Translators to the Legislative Assembly.

TABLE of the number of Students who have attended the Normal Schools.

	Jacqnes- Cartier.	1	AcGi	11.		Lava	al .	es.	les.	
Session ==	Pupil Teachers (male.)	Pupil Teachers. (male.)	Pupil Teachers. (female.)	Total.	Pupil Teachers. (male.)	Pupil Teachers. (female.)	Total.	Total of Males.	Total of Females.	Grand Total.
				1	:		_			
Sess, 1st. 1857.	18	5	25	30	23	Ì	22	45	25	₩.
" 1857–58.	46	7	63	70	36	40	76	89	103	70 192
" 1858-59.	50	1 7	76	83	34	52	86		128	219
'· 1859-60.	53		72	81	40	54	94	102		
" 1860-51.	52	9 5	56	Gi	41	53	94	98	109	207
" 18 1-62	41	10	53	68	39	52	91	90	110	200
11862-53.	57	8	72	80	39	55	91	104	124	228
1863-64	5 6	7	67	74	34	49	83	97	116	213
" 1864-65	56	5	60	65	43	55	98	104	115	219
" 1865-66.	43		78	75	39	57	96	84	130	214
" 1866-67.	35	2 2 5	73	75	43	55	98	80	128	208
" 1867–69.	35		57	62	49	73	122	89	130	219
" 1868 –69 .	36	4	70	74	64	73	137	104	145	247
1869-70.	46	7	69	76	83	80	162	135	149	284
" 1870-71.	63	в	70	73	54	58	112	123	129	252
" 1871-72.	51	13	94	107	32	56	88	196	150	246

The following table shows the number of Diplomas granted by the three Normal Schools since their establishment, &c.

DIPLOMAS granted to Pupils of the Normal Schools since the establishment of these Institutions.

	Jacques- Cartier								les	
Class of Diploma.	Males.	Males.	Females.	Total.	Males.	Females.	Total.	Total of Males	Total of Females	Grand Total.
Academy Model School Eelmentary Total	34 133 112	21 31 45	12 178 462	23 309 508	111	179 250	34 290 330	89 275 333	12 357 712	101 632 950

The following summary of the results of the operations of the Boards of Examiners gives rise to the same remarks as last year.
We observe that about one-tenth only of the candidates examined were rejected.

ANNUAL Statistical Summary of the Boards of Examiners of the Province of Quebec, for 1871.

	meetings lasted	Amined.	NUMBER OF DIPLOMAS GRANTED.								Class of Diploma and									
BOARDS.		stes ex	ber of teachers day.	lst.	ide- ies, class.	m	ade- ier, class.	Sch	odel ools, class.	Sch	odel ools, class.	a ch	ry ools.	Sch	ment- ry lools, class	!	No Candi	na an . of idates sed.	_	42400 200
	Number of days the	Number of Candid	Average number amined per day	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Mules	Females.	Males.	Females.	Academy.	Model School.	Elementary School	Grand Total.	Number of Gondidates
Pauce Pauce Pauce Parlevoix Paicoutimi Paspé Pamourasks Pontreal (Catholic) Pontreal (Protestant) Pate (Protestant) Chmond (Catholic) Chmond (Catholic) Chmond (Protestant) Mouski Perbooké Panstead Paree-Rivers Aterloo & Sweetsburg (Catholic) Aterloo & Sweetsburg (Protestant)	8 4 4 5 4 4 3 2 2 3 4 4 4	3 7 13 4 5 22 186 58 20 15 93 17 26 31 17 29 44 63 45	2 7 23 15 5 3 23 4		1	1	4	3	4	1		1 1 3 4 1	3 6 6 6 4 4 13 117 12 8 3 24 11 10 14 19 6 6 6 18	1 1 3 2 1 	3 8 42 27 8 6 51 13 10 5 6 14 23 217	4	6 3 2 1 8	3 7 10 4 5 21 1c3 56 19 15 75 15 22 22 16 27 44 50 8	33 70 44 5 211 163 59 19 15 75 17 22 2 16 -7 44 58 8	i

According to the following table there is a marked increase in the number of Protestant dissentient schools and pupils attending the same, and a decrease in the number of Catholic dissentient schools.

The former have a total of 173 schools, with an attendance of 6116 pupils, and the latter 27 schools with only 1049 pupils.

No. of Dissentient Schools and No. of Pupils.

21 Michel Caron 21 523 22 L. Grondin 16 526 23 G. Thomson 25 1212 24 F. X. Valade 22 806 25 A. D. Dorval 10 273 26 C. Germain 9 268 27 C. B. Rouleau 9 268	Numbe nt of
2 Rev. R. G. Plees	Pupils.
2 Rev. R. G. Plees 4 174 3 L. Lucier 3 4 Th. Tremblay 4 125 5 Vincent Martin 1 22 3 G. Tanguay 264 8 Wm. Thompsch 9 264 9 P. F. Béland 4 164 1 J. Crépault 2 2 2 F. F. Juneau 3 249 4 W. Alexander 19 19 5 B. Maurault 8 470 6 H. Hubbard 7 8 470 9 J. N. A Archambault 2 98 20 J. B. Delâge 8 138 21 Michel Caron 21 523 22 L. Grondin 16 526 23 G. Thomson 25 1212 24 F. X. Valade 22 806 25 A. D. Dorval 9 268 26 C. Germain 9 268 27 C. B. Rouleau 9 268	
A	
Th. Tremblay 4 125 5 Vincent Martin 1 22 3 3 G. Tanguay 7 S. Boivin 9 264 3 Wm. Thompscu 9 264 3 Wm. Thompscu 9 P. F. Béland 1 J. Crépault 2 F. F. Juneau 3 P. Hubert 3 249 3 P. Hubert 19 5 B. Maurault 4 W. Alexander 19 5 B. Maurault 2 98 McLoughlin 18 470 9 J. N. A Archambault 2 98 138 138 1 Michel Caron 21 523 2 L. Grondin 16 526 3 G. Thomson 25 1212 4 F. X. Valade 22 806 5 A. D. Dorval 10 273 56 C. Germain 9 268 7 C. B. Rouleau	190
Stanguay Stanguay	1
G. Tanguay 9 264	
S. Boivin	
Wm. Thompsch	
3 P. F. Béland	
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1 J. Crépault	
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5 B. Maurault. 6 H. Hubbard. 7 M. Stenson	683
8 H. Hubbard 5 7 M. Stenson 5 8 McLoughlin 18 470 9 J. N. A Archambault 2 98 0 J. B. Delâge 8 138 1 Michel Caron 21 523 2 L. Grondin 16 526 3 G. Thomson 25 1212 4 F. X. Valade 22 806 5 A. D. Dorval 10 273 6 C. Germain 9 268 7 C. B. Rouleau	
7 M. Stenson	
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9 J. N. A Archambault 2 98	
0 J. B. Delâge 8 138 1 Michel Caron 21 523 2 L. Grondin 16 526 3 G. Thomson 25 1212 4 F. X. Valade 22 806 5 A. D. Dorval 10 273 6 C. Germain 9 268 17 C. B. Rouleau 9 268	
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4 F. X. Valade 22 806 5 A. D. Dorval 10 273 6 C. Germain 9 268 7 C. B. Rouleau	
5 A. D. Dorval 10 273 6 C. Germain 9 268 7 C. B. Rouleau	
6 C. Germain	
7 C. B. Rouleau	
8 Bolton McGrath 17 804	
Boiton mediavi	
Total 173 6116 27	1049

The table showing the state of the Superannuated Teachors' Fund establishes that notwithstanding the liberality of the Government in increasing the grant and consequently the pensions, the teachers seem to be no more disposed to profit by this benevolent institution than in the past, thus failing to secure to themselves some support on retirement.

SUPERANNUATED TEACHERS' FUND.

YEAR.	Number of Teachers enrolled each year.	Number of Pensioners each year.	Rate of pen- sion for each year of teaching.	Total of pensions paid
			\$ cts.	\$ ct=.
1857	150	63	4 00	883 90
1858	74	91	4 00	2211 74
1859	18	128	4 00	3115 36
1560	4	130	3 00	2821 17
1861	9	160	3 00	3 03 59
1862	10	164	1 75	2522 00
1863		171	2 25	3237 00
1864	7	170	1 75	2727 00
1865	11	160	1 75	2787 00
1866	13	172	1 75	2784 00
1867	15	176	1 75	3036 00
1868	10	163	2 50	4590 00
1868	9	171	2 50	4677 00
1870	5	174	2 50	4700 00
1871	13	162	2 50	4865 00

P. J. O. CHAUVEAU, Minister of Public Instruction.

Quebec, 15th December, 1872,

Quebec Educational Report for 1871-72.

It is somewhat late in the day to be receiving the report of the educational work done in Quebec during 1871, but better late than never. The progress made during the period embraced in this report seems to have been encouraging. In 1857 there were only 2,015 school houses in the Province, while in 1871 there were 3,233, an increase in fourteen years of 1,223. In 1853 there were 2,352 institutions of all kinds for public instruction in Lower Canada, in 1870 there were 4,028. The scholars had increased during the same period from 108,284 to 218,503, while the increase in the contributions was still more remarkable. In 1853 all that was raised amounted only to \$165,848, while in 1870 it had risen to \$976,788. In 1871 there was a slight diminution, but only in the department of building and repairing school houses. The Normal Schools appear to have had a very gratifying amount of success, the number of pupils having increased from 70, in 1857, to 246 in 1871.2. The number of Protestant Dissentient Schools now amount to 173, with an attendance of 6,116 pupils. The Toronto Globe, in its review of this report, has the following deserved tribute of praise to the Quebec education authorities:—

"It is not to be expected that we, in Ontario, should take so much interest in the mere statistics of education in Quebec as in those of our own Province, yet it is very gratifying to mark the continuedly onward progress, and the commendable zeal and liberality which are being displayed in all parts of our Dominion to extend the blessings of a thorough Common School education to the poorest child among us. The great work has not as yet been fully achieved, but the friends of education are keeping the end steadily in view, and will rest satisfied with nothing short of all the children in Canada being trained in our public schools in such a manner as to fit them for the discharge of life's duties with some measure of efficiency

and success. - Budget.

Lower Canada Emigration to The United States.

The American Journal of Education for March last, under the head of "Geographical Notes," has the following in relation to the composite population of the United States:

The Paris Tour du Monde, relying on certain Canadian journals, greatly exaggerates the emigration from Lower Canads to New England. Thus, it reckons the French Canadians in Massachusetts at over 50,000, whereas, according to the last census, there were in that State but 38,689 Canadians (whether French or English). In like manner Fall River is credited with 7,500 instead of only 1,129; Lawrence with 1,500 instead of 1,306; Lowell with 3,700 instead of 2,620. Cowley, in his "History of Lowell" (Boston, 1868), describes a procession of over 2,500 factory girls, "clothed in white" and looking "like liveried angels," which took place in 1834, and greatly impressed M. Michel Chevalier, who happened to witness it during his visit to this country. In 1861, Prince Jerome Napoleon found "their places filled by a motley crowd of Americans, English, Scotch, Irish, Dutch, and French Canadians, who were hardly likely to arouse that exquisite poetic sentimen which Chevalier felt for the factory girls of 1834." Vermont, from its position on the border, naturally stands next to Massachusetts, having 28,544 Canadians. New Hampshire has 11,901; Connecticut, 10,056; Maine, 9,410, Rhode Island, 8,933.

Jacques-Cartier Normal School, Montreal-

The following is the list of Diplomas and prizes granted and distributed at the close of the Session of 1872-73, held on July 7,1873.

DIPLOMAS.

ACADEMY :- Ismaël Longtin, Evariste Leblanc, Vitalien Cléroux,

ACADEMY: —ISHINGE LOUIGER, EVALUACE,

Delphis Martin, Julien Tifle;

Model School: —Casimir Grégoire, Hormisdas Prud'homme,

Casimir Valiquet, David Dupuis, Joseph Jasmin, Louis A. Olivier and Constantin Lecavalier;

ELEMENTARY SCHOOL: —Simon Aubin, Arsène Godin, Joseph Brassard and Albert Laurendeau.

PRIZE LIST.

Model School (Diploma) Class:—Excellence—Pr. Casimir Grégoire; 1st acc. Joseph Jasmin, 2 Mormisdas Prud'homme. Teaching—Pr. Casimir Grégoire; 1st acc. Casimir Valiquette, 2 Oswald Coursol. French Language—Pr. Hormisdas Prud'homme; 1st acc. Joseph Jasmin, 2 Casimir Grégoire. English Exercises—Pr. Casimir Grégoire; 1st acc. Hormisdas Prud'homme; 2 Oswald Coursolle. English Translation—Pr. Casimir Grégoire; 1st acc. Louis A. Olivier, 2 Joseph Jasmin. English Vocabulary—Pr. Oswald Coursolle; 1st acc. Casimir Grégoire; 2 Louis A. Olivier. English Orthography—Pr. Oswald Coursolle; 1st acc. Hormisdas Prud'homme, 2 Casimir Grégoire. English Prosody—Pr. David Dupuis; 1st acc. Oswald Coursolle, 2 ex æquo, Casimir Grégoire and Joseph Jasmin. Algebra—Pr. Casimir Grégoire; 1st acc. Casimir Valiquette, 2 Joseph Jasmin. Geometry—Pr. Casimir Grégoire; 1st acc. Casimir Valiquette. General History—Pr. Joseph Jasmin; 1st acc. Casimir Grégoire, 2 David MODEL SCHOOL (DIPLOMA) CLASS :- Excellence-Pr. Casimir Gré-History-Pr. Joseph Jasmin; 1st acc. Casimir Grégoire, 2 David

ELEMENTARY SCHOOL (DIPLONA) CLASS:—Excellence—1st pr. Albert Laurendeau, 2 Joseph Brassard; 1st acc. Napeléon Mallette, 2 Arsène Godin. Teaching—1st pr. Joseph Brassard, 2 ex æquo, Arsène Godin and Napoléon Mallette; 1st acc. Pierre Derome, 2 ex æquo, Albert Laurendeau, Joseph Octave Drouin and Simon Aubin. French Language—1st pr. ex æquo, Albert Laurendeau and Joseph Brassard, 2 Simon Aubin; 1st acc. Arsène Godin, 2 Joseph O. Drouin English Exercises—1st pr. Albert Laurendeau, 2 Arsène Godin; 1st acc. Joseph O. Drouin, 2 Simon Aubin. English Translation—1st pr. Joseph Brassard, 2 Albert Laurendeau; 1st acc. Arsène Godin, 2 Simon Aubin. English Vocabulary—1st pr. Napoléon Mallette, 2 Albert Laurendeau; 1st acc. Joseph O. Drouin, 2 Joseph Brassard. English Orthography—1st pr. Joseph O. Drouin, 2 Joseph Brassard; lat acc. Albert Laurendeau, 2 Napoléon Mallette. English Prosody -ler pr. Napoléon Mallette, 2 Albert Laurendeau; 1st acc. Joseph O. Drouin, 2 Jeseph Brassard. Arithmetiic—1st pr. Joseph Brassard, 2 Jean Baptiste Demers; 1st acc. Albert Laurendeau, 2 Napoléon Mallette. Mental Arithmetic-1st pr. Joseph Brassard, 2 Napoléon Mallette; 1st acc. Moïse Guérin. 2 ex æquo, Albert Laurendeau and Joseph O. Drouin. Book-Keeping—1st pr. Pierre Derome, 2 Joseph Brassard; 1er acc. Moise Guérin, 2 Arsène Godin. Geography—1st pr. Arsène Godin, 2 Simon Aubin; 1st acc. Moise Guérin, 2 Napoléon Mallette.

PERPARATORY CLASS: Excellence-1st pr. Onésime Boisvert, 2 Cyprien Dupuis; 1st acc. Jean Baptiste Turcot, 2 Napoléon Dubeau. French Language-1st pr. Onésime Boisvert, 2 Jean Baptiste Turcot; lat acc. Elséar L'Ecuyer, 2 Cyprien Dupuis. English Exercises—
lat pr. Onésime Boisvert, 2 Jean Baptiste Turcot. English Translation—lat pr. Onésime Boisvert, 2 Jean Baptiste Turcot; lat
acc. Napoléon Dubeau, 2 Cyprien Dupuis English Vocabulary—
lat pr. Onésime Boisvert, 2 Jean Baptiste Turcot; lat acc. Cyprien
Dupuis, 2 Georges Gauthier. English Prosody—lat pr. Onésime
Boisvert, 2 Jean Baptiste Turcot; lat acc. Cyprien Dupuis, 2 Georges
Gauthier. Arithmetic—lat pr. Onésime Boisvert, 2 Elséar L'Ecuyer. Gauthier. Arithmetic—1st pr. Onésime Boisvert, 2 Elzéar L'Ecuyer; 1st acc. Napoléon Dubeau, 2 Cyprien Dupuis. Sacred Historylat pr. Onésime Boisvert, 2 Cyprien Dupuis; 1st acc. Napoléon Dubeau, 2 Joseph Gibouleau. Geography—1st pr. Onésime Boisvert, 2 ex mquo, Napoléon Dubeau and Joseph Gibouleau; 1st acc. Jean

Baptiste Tarcot, 2 Cyprien Dupuis.

CLASSES UNITED:—Calligraphy—(3rd Class) pr. Hermisdas Prud'homme; 1st acc. ex æquo, David Dupuis and Oswald Coursolle. 2 ex equo, Casimir Grégoire and Joseph Jasmin. (2nd Class):—1st pr. Joseph Brassard, 2 Napoléon Mallette; 1st acc. Pierre Derome; 2 Albert Laurendeau.

PREPARATORY CLASS :- 1st pr. Octave Godin, 2 Cyprien Dupuis ; lst acc. Onésime Boisvert, 2 Georges Gauthier. Drawing-1st pr. ex seque, Jean Baptiste Demers, Joseph Brassard and Casimir Valiquette, 2 Delphis Martin, 3 ex sequo, Onésime Boisvert, Roch Forté and Joseph Goyette; lat acc. ex sequo, Mcise Guérin, Vitalien Cléroux and Julien Fifle, 2 ex sequo, Louis A. Olivier, Casmir Grégoire, Evariste Leblanc and Simon Aubin, 3 ex sequo, Pierre Derome, Joseph Jasmin, and David Dupuis. Religious Instruction (3rd Class):—lat pr. Casimir Grégoire, 2 Hormisdas Prud'homme; lat acc. E. Leblanc, 2 David Dupuis. (2nd Class):—lat pr. ex aquo, Albert Laurendeau and Moïse Guérin, 2 Arsène Godin; lat acc. Simon Aubin, 2 Joseph Brassard. (Preparatory Class) :-

1st pr Cyprien Dupuis, 2 Napoléon Dubeau; 1st acc. Onésime Boisvert, 2 Georges Gauthier. Agriculture (3rd Class):—pr. Cesimir Grégoire; 1st acc. Louis A. Olivier, 2 Hormisdas Prud'homme. (2nd Class):—1-t pr. Albert Laurendeau, 2 Arsène Godin; 1st acc. (2nd Class):—1-t pr. Albert Laurendeau, 2 Arsène Godin; lat acc. Pierre Derome, 2 Napoléon Mallette. (Preparatory Class):—1st pr Onésime Boisvert, 2 Cyprien Dupuis, 1st acc. Napoléon Dubeau, 3 Joseph Gibouleau. Horticulture—(Th. Four Class United):—1st pr. Casemir Valiquette, 2 Joseph Gibouleau, 3 ex æquo, Louis A. Olivier, Moïse Guérin and Casimir Grégoire; 1st acc. Evariste Leblane, 2 Georges Gauthier, 3 Cyprien Dupuis, 4 Delphis Martin. Botany-(2nd Class) :- 1st pr. Albert Laurendesu, 2 Joseph Brassard; 1st acc. Pierre Derome, 2 Moïse Guérin

The Canadian Trade.

Under this caption, the Chicago Tribune makes some important admissions, of which Canadians would do well to take advantage with a view to retaining their present acknowledged superiority. It says:-

In some departments of our commerce Canadian houses are leading all others. Most of the pork is in their hands, and since the opening of navigation they have bought by far the largest part of our wheat. The trade has largely increased over the figures of last year, and the same is likely to be true to the end of the season. The effect on freights has been to nearly equalize them, while last year they were 2c to 5c per bushel in favor of Montreal. The larger shipments by the St. Lawrence have enabled the vessel owners and the railways to advance their rates, while by New-York a corresponding reduction is realized. The increase in this trade is due largely to the facilities offered by the Allan line of steamers. In the evening Montreal dealers telegraph to Liverpool the prices ruling here, offering to purchase and deliver free on board at Montreal in so many days Chicago or Milwaukee wheat at a certain figure. In the morning, perhaps, they receive orders to buy, and, by the time our Board meets, the order is here and the grain is purchased within the next hour In this way ends of the world are brought together. By means of telegraph our and their lake and ocean steamers, wheat passes from our mammoth elevators, and, in little more than thirty days, is found upon the tables of the hungry crowds on the other side of the Atlantic. That this trade will steadily increase till nearly all our cereals and produce destined for European markets will go by the St. Lawrence, there cannot be a particle of doubt. Let the Canadians enlarge their canals so as to pass vessels of 1,200 tons burden and they will beat the New-Yorkers in the race for our commerce in spite of all the latter can do. They will this season, as above stated, carry to Europe a large majority of our shipments of wheat. A great misfortune to foreigners, and to the West as well, is that they do not understand the best modes of preparing corn meal for the table. Ignorance on that subject will doubtless gradually be dissipated, and then scarcely any limit can be placed to the foreign demand for our corn. It would be a capital investment for the Northwest to send over a hundred or two of our best hotel and steamboat cooks to teach the Europeans what delicious food can be made from corn meal. Innovations of that kind, however, are slow of growth.

Dominion Finances.

ESTIMATES FOR THE NEXT FISCAL YEAR.

The following is a summary of the estimates for the year ending June 30th, 1874, which were submitted to the House of Commons by the Finance Minister:

Public Debt	\$6,123,766 160,359
Civil Government	6,284,125 733,459 380,261 426,278 99,700

Geological Surveys, &c	127,607
Agriculture and Statistics	144,680
Emigration and Quarantine	327,210
Marine Hospitals	60,500
Pensions	52,923
Superannuation	52,980
Public Works, &c., chargeable to cap	02,000
ital	9,974,240
Public Works, &c., chargeable to	0,013,230
rubile works, &c., chargeable to	9 007 500
income Steem Yemies	2,097,500
Ocean and River Steam Service	368,674
Penitentiaries	357,515
Nilitia	1,000,000
Lighthouse and Coast Service	492,649
North-west Territories, British Colum-	000 400
bia, &c	930,493
Fisheries	51,835
Steamboat Inspection	10,850
Indian Department	80,1 3
Miscellaneous	733,236
Subsidies to Provinces	2,927,104
Collection of Revenues:	
Customs\$ 602,237	
Inland Revenue 2 8,300	
Culling Timber	
Public Works 2,069,845	
Post Office 1,316,000	
Minor Revenues 10,000	
	4,294,382
Total for 1874	\$ 31,008,423
Total for 1873	31,050,171
Decrease for coming year	\$ 41,748

Yield and Value of the Canadian Fisheries in the year 1872:

		1872	1873
PROVINCE	KINDS OF FISH	QUANTITY	VALUE
Neva Scotia	Codfish Mackerel Herring Salmon Other Fish & Fish Oils	525,249 qtls 115,833 br/s 170,657 brls 6,677 brls	\$2.232,308 1,621,894 682,628 144,078 1,332,927
Queb 30	Codfish Mackerel Herring Salmon Other Fish & Fish Oils	217,741 qtls 1,759 brls 29.069 brls 4,050 brls	911,845 17,590 87,206 64,800 238,748
			\$1,320,189
NBrunswick	Codfish Mackerel Herring Salmon Other Fish & Fish Oils	81,420 qtls 2,217 brls 124,157 brls 8,000 brls	346,035 32,728 496,628 207,767 882,301
			\$1,965,459
Ontario	{ Whitefish Trout Herring Other Fish	17,490 brls 7,586 brls 6,974 brls 4,466 brls	143,520 60,688 41,844 21,581
			\$267,633

Note.—Salmon, Mackerel, and Herring are uniformly reduced to barrels from the numbering by pieces, cans, boxes, etc.

About one thousand decked vessels and seventeen thousand

Total Value \$9,570,115

opens boats are now engaged in this branch of Canadian industry, giving employment to 42,000 men, and supplying entirely the support of two hundred thousand persons. The total value of the boats' tackle, nets, &c., embarked in the fisheries in 1870 was \$7,225,494.

The fisheries of British Columbia and Manitoba have not yet been made available for foreign commerce, but they are of incalculable value to the inhabitants, and as they are inconceiv-

ably rich will be of great value by and bye.

MISCELLANEOUS.

The Mastership of the Rolls.—According to Haydn's "Manual of Dignities," the Master of the Rolls ranks next after the I ord Chief Justice of England. Anciently, according to Bratson, the Lord Chancellor, or Keeper, was asisted by a numerous body of learned persons termed "Masters," at the head of whom was an officer called the "Master," or Guardian of the Rolls or Records of his Court. When the duties of the Lord Chancellor as a Minister of the Crown increased, his lordship very naturally referred no inconsiderable portion of his judicial functions to this personage, whose decrees, however, were always subject to the appellate jurisdiction of the Court of Chancery itself. He has in his custody all enrolments of the Court of Chancery, in which are recorded charters, patents, commissions, and other instruments under the Great Seal, together with deeds, recognisances, and other public documents, made on rolls of parchment. The enrolments since the reign of Richard III, have been kept in the Tower of London. Under the statute of 1 & 2 Vict. cap. 94, the Master of the Rolls is constituted keeper of all the records in the Public Record Office founded by that Act. The mansion between Chancery and Fetter lanes called the Rolls House, with its chapel adjoining, was formerly a hospital for the use of Jews who became converts to the Christian faith; but after the expulsion of the Jews from England, in the reign of Edward I., it was annexed for ever to the office of the Master of the Rolls, who is now a gentleman (Sir G. Jessel) of Jewish extraction, and enters "The Rolls" without becoming, or being asked to become, a convert. The Master of the Rolls holds his court here and at Westminster. Although the Rolls of the Court of Chancery begin in the reign of King John, the first authentic appointment of a Keeper or Master, according to Haydn, dates only from the 23rd year of the reign of Edward I.. when Adam de Osgodby had the custody of the Rolls of

The New Supreme Court of Judicature Act.—Recently was issued the new Act for the constitution of a Supreme Court, and for other purposes relating to the better administration of justice in England, and to authorize the transfer of the appellate division of such Supreme Court of the business of the Judicial Committee of the Privy Council. The Act is divided into seven parts, with a schedule of 58 rules on the procedure to be adopted on the operation of the new law, on the 2nd November, 1874, by which time new rules are to be made for carrying the Act into force There are 130 sections in the statute. Two courts are to be constituted out of the existing courts, one to be called "Her Majesty's High Court of Justice," and the other "Her Majesty's Court of Appeal," of which latter court the Lord Chancellor is to be the president. There are to be division courts, and rules to be made as to the sittings. The division of the legal year into terms is to be abolished, and the "long vacation" will become historical; vacations will be appointed, but sittings will be held in the same. A new feature in law, called "referees," will be engaged in hearing cases. Law and equity are to be concurrently administered. Much will depend on the new rules to be framed under the Act.

New Statutes.—In the August number of our Reports, says the Law Journal, some important Acts of the Session will be found as printed by the Queen's printer. The University of Dublin Tests Act, 1873, which is marked chapter 21, and which in substance consists of only one section, and opens every office of emolument in that university, except Divinity professorships, to all persons without distinction of creed, recalls to mind the fierce struggles which marked the commencement of the Session, and the triumph of Mr. Fawcett over the Government.

Chapter 22 is an Act enabling the Legislatures of New South Wales, Victoria, South Australia, Queensland, Western Australia, and Tasmania respectively to impose import duties upon agreement with one or more of the Colonies named or with New Zealand, so long as all countries are treated equally in the levying of customs, and no breach is effected of any imperial treaties. Chapter 24 continues the Peace Preservation (Ireland) Acts to the first day of June 1875, subject to certain limitations and amendments. Ireland also claims chapter 27, further amending the law relating to juries in that country, and regulating and perhaps improving the method of making the general and special juror's books; chapter 30 amending the Registration Law for the present year, and chapter 34 enabling grand juries to present at assizes sums of money for the purposes of repairing and widening towing-paths on the banks of navigable rivers, to be levied off entire countes, the old Act of William IV, only authorizing the levy of money off the baronies. The English law matrimonial is affected by three Acts printed in the number-namely, chapters 25, 28, and 31. Two of these are passed to legalize marriages in two chapels using the service of the Church of England, but not licensed. The first is Gretton Chapel, in Winchcomb, in the county of Gloucester; the second the chapel of St. John, in Eton, which was built in 1854, as a chapel of ease to the parish church of Eton College, and in which many hundreds of marriages have been celebrated, although no authority had ever been given by the Bishop of Oxford or otherwise for the publication of banns or the solemnization of marriages therein. Chapter 31 is the Act passed, at the instance of the Attorney-General, to authorize the Queen's Protector to intervene in suits of nullity of marriage, in cases of collusion, or of suppression of material facts, as that officer now does in suits for dissolution of marriage.

Lord Lytton on Violent Crimes —In one of the most suggestive passages in "Kenelm Chillingly," Lord Litton refers to the age at which violent crimes are usually committed. He says: "Do you think Macbeth was young when he murdered Duncan?" "Certainly. No man ever commits a first crime of a violent nature, such as murder, after thirty; if he begins before, he may go on up to any age. But youth is the season for commencing those wrong calculations which belong to irrational hope and the sense of physical power. You thus read in the newspapers that the persons who murder their sweethearts are generally from two- to six-and-twenty; and persons who murder from other motives than love -that is, from revenge, avarice, or ambition—are generally about twenty-eight—lago's age. Twenty-eight is the usual close of the active season for getting rid of one's fellow-creatures—a prize-fighter falls off after that age. I take it that Macbeth was about twenty-eight when he began to whine about missing the comforts of old age. But can any audience understand that difference of years in seeing a three-hour's play; or does any actor ever pretend to impress it on the audience, and appear at twenty-eight in the first act, and as a sexagenarian in the fifth?"

Good Advice to Young Farmers .- Mr. Joseph Harris says in the American Agriculturist: What I want to say to any young farmer reader of the American Agriculturist who honors me with his confidence is this: Make up your mind to steadily improve the condition of your land; above all, kill the weeds, underdrain, growmore clover, pease and roots, and consume them on the farm.

Make more and better manure. Buy bran to feed out. Sell timothy hay if need be, but never sell clover hay. Sell straw whenever, as now in this section, it is worth half as much per ton as bran. Study the chemistry of manure. There are many places where artificial fertilizers can be used to great advantage. Improve your stock; feed liberally. Raise a few thorough bred, and gradually work your way into business; but do not be in a hurry. Set out choice fruit trees, and take care of them. Spend moderately. Live within your income. Do not be discontented with your prospects. And again I say, kill the weeds. Cultivate the land thoroughly. Make the weed seed grow, and then kill the young plants I feel sure that the young famer who follows this advice will not have to wait many years before getting his reward. I look upon it it as absolutely certain that we shall get good prices for produce in the near future. I fear still more that farmers will not profit by them Prices never have been and never can be high enough to make poor farming profitable. You must get your land in good condition now, and thus be ready to avail yourself of the high prices when they come—as come they will.

Anecdotes of Dogs. - A writer in the Quarterly Review adduces many pretty instances of affection, sagacity, and cunning in A dog deserted by his master will take some cast-off garment and lie on it for days; the sight of the cleaning of guns preparatory to the 12th of Augusts fills him with raptu-rous anticipations of sport; the taking up a hat or stick makes him leap for joy. As it is probable he has dreams in which are reproduced the impressions made on his memory, so it is probable that when waking he may follow imaginary scenes, which the memorative faculty, or hope, or fear, may depict on the imagination. He is said to distinguish at a glance a tramp or a swell-mob's man from a gentleman, even in the most soiled attire. He will steal away unperceived on a poaching expedition, perhaps invite a serviceable companion to assist him, and, when all is over, steal back into the kennel, and sometimes even wriggle his head back into his collar. A dog which once saw its master drop a gold coin on the floor, is related to have picked it up, and to have sat the whole day with it in its mouth, refusing to eat anything till his master returned for fear he should drop the treasure. A poodle puppy, unable to resist temptation, stole a pigeon out of a pie, and, to avoid detection, filled up the hole with a bit of damp inky sponge taken from a writing table. A dog has been known to simulate a quarrel with another dog outside a door into which he wished to gain admission, because a real quarrel the day before had led to that result The story of the dog, which being discarded by its master, was seen deliberately to stand gazing at the rushing waters of the Loire, then painfully lift himself on his crippled legs, and leap into the water, and when a stick was stretched out to him, gave a look of despair, turned his head away, and floated down without an effort to save himself, has a little of poetry in it, but we are not prepared to deny anything except the consciousness, i. e., real deliberation or the intention of the act. With this exception, there is nothing here, or in much more wonderful stories of the curning and affection of animals, that is at all inconsistent with the theory we lay down. The combinations of direct perception, feeling, memorative and estimative power, and adaptations to the ever changing circumstances of their life, are only second to the variations of operations of intellectual life. The difference is that in animals the perception is of the individual and particular good or evil, and that the operations that lead to the wonderful variety of the acts which so much resemble men, are without reflex consciousness, whereas the human mind perceives the good and evil in the abstract at least implicitly, and is capaple of conscious reflection in its acts. And if we wish to realize in some sense the state of beasts, we have only to remember that many of our most complicated acts, which in themselves seen to require a long train of thought, may be performed unconsciously by the mere force of habit. What is thus an occasional state in us, is in a certain sense the normal state of beasts, who have not the power of consciousness, but for whom nature supplies that concatenation of sensitive ope. rations which in us minister to our intellect, but would have been sufficient for our animal nature and are all that is given to peasts. - The Month.

Philology in the Court of Queen's Bench.—The precise meaning of the French word "valet" has been the latest bone of contention in the Court of Queen's Bench, Dr. Kenealy asserted that Chatillon had been less Sir Roger Tichborne's tutor than his valet; and the statement was resented by the Lord Chief Justice, who observed that the term "valet" in French was peculiarly offensive, as it implied a mere lackey. On this point there can be no doubt that Sir Alexander Cockburn is philologically, if not quite technically, right. "Valet" is, save only in the case of a "valet de chambre du roi," an offensive term; still, a valet is not necessarily a lackey any more than a potman is an hostler. A French hostler is a "valet décurie." Gay Miège, gent., writing in 1690, renders the term "un valet de chiens" as "a scurvy servant." The hangman's assistant was dubbed "le valet du bourreau." The knave at cards is "le valet" and this last use of the word calls up the indefatigable word-grubber, Ménage, who doubts whether "valet" and its cognate "varlet," had in old times the degrading signification which now attaches to them. Ménages quotes the old crusading historian, Villahardouin—so often mentioned by Gibbon who calls Alexis, son of the emperor Isaac Comnenus, "Valet de Constantinople." Again, the author of the romaunt of "Lancelot du Lac," speaking of the young son of a Vavassor, who had not yet been dubbed a knight, says "Vers la fin du manger vint céans un varlet." In the patois of Picardy, "varlet"

pronounced, as in Spanish, as v. All thing considered, the status of the mediæval "valet" is adequately expressed in the portrait of the Knave of Hearts, who "stole those tarts, and took them quite away." The felonious "valet" was not a mere menial, but a kind of sub-courtier, half gentleman-usher, and half yeoman of the guard. Pasquieur and President Fauchet call him an "escuyer tranchant," or squire who carved at his lord's table; and such a squire-valet was the father of Gil Blas in his latter years. Wi h regard to the origin of the word the opinious of the learned differ. Some sages derive "valet" from the Hebrew valad," a child; others from the same Celtic root with "vassal"; while yet other authorities trace it to the Latin "baro" or "varo," a blockhead, a simpleton, a boor, an oaf. Thus Cornutus, on the Fifth Satire of Persius, "Varones dicuntur servi militum qui utique stultissimi sunt, servi scilicet stultorum" And so we get the word through varo, varolettus, varlet, valet. In conclusion, we may mention that in one sense only must a valet wear livery, and become a lackey or flunkey; that is when he is a "valet du pied," hanging on to the footboard, or running by the side of his master's carriage. Otherwise plush and hair-powder need not enter into the valet's soul. - Daily Telegraph.

How London is Watched and Fed.-Colonel Henderson, the Chief Commissioner of Police, supplied the Shah, at his own request, with some statistics of London which greatly interested him, specially the fact that the streets of London patrolled by the police would reach, in a straight line, from London to Teheran, and thence to Point de Galle, in Ceylon, 6,612 miles. The following statistics were also supplied to the Shah, and will probably be new to most of our readers:—The area of London, consisting of the Metropolitary Police District 6821, and the City Police District 13, is 600. tan Police District, 6884, and the City Police District 13, is 690 square miles. The population, from the census of 1871, of the Metropolitan Police District, is 3,810,744, and the estimated increase to this date, 1873, is 140,018; the City Police District is 74,897, affording a total population of 4,025,659. The total length of streets and roads natrolled by the Metropolitan Police length of streets and roads patrolled by the Metropolitan Police is 6,6 2 miles, and the addition or increase in the length of streets during the past ten years is 3,623 miles. As the crow flies from London to Point de Galle, the distance is 6,600 miles. Teheran is in the direct line between these two places, 2,800 miles from London, and 3,800 from Point de Galle. The numder of inhabited houses in the metropolitan police district is 519,489, in the city police districts, 9,305—giving a total of 528,-794. The number of omnibuses, is 1,400, and of hackney carriages 8,108 The estimated number of horses drawing public carriages, allowing two horses for each hackney carriage and six horses for each omnibus (which is about the average number), is about 25,000. The strength of the metropolitan police is 9,927, and of the city police 785—giving a total of 10,712. The number of cattle, sheep, &c., sold last year in the Metropolitan Cattle Market were: —Oxen, 40,000; sheep and lambs, 1,5 0,000; calves, 30,000; pigs, 8,500—total, 1,803,500. The quantity of dead meat brought to the Metropolitan Meat and Poultry Market during the year 187 was as fellows:—Country meat 87, 70 tons; town killed and foreign, 66,875—total :54,045 tons. The town-killed meat was no doubt bought alive in the Metropolitan Cattle Market.

Largest Telescope in the World .- The work upon the new tower and dome at the Observatory for the refracting telescope now being made at Cambridgeport, Massachusetts, has already commenced, and is being pushed forward rapidly. The Telescope will be completed and mounted in its place at the Observatory by next Fall, at least eighteen months sooner than the time specified in the contract. This will be the largest refractor in the world, the object glass having a diameter of twenty-six and a half inches. The tube wille be of iron, and its focal distance thirty-two feet. largest refractor is owned by a private gentleman, Mr. Newhall, of England, the object glass of that being twenty-five inches in diameter. The object glass of the instrument now in use at the Observatory is only nine inches in diameter, and when the new one shall be mounted, the observers here will of course be able to make much closer and more satisfactory observations than have been obtainable heretofore. The object glass alone of the new telescope cost \$ 7,000. It was cast in England and finished in Massachusetts, where it is now ready for the instru-

or "varleton" is the equivalent for our "hobbledehoy; " and in Gascon a growing lad is called a "baelet"—the b being will be about \$30,000, and that of the tower and dome about will be about \$30,000, and that of the tower and dome about \$15,00

New instruments to observe the transit of Venus in December 874, are also being made, consisting of telescope, chronometers, photographing instruments, &c., some of which are now adjusted

at the Observatory.

This transit will not be visible at this place, however, and arrangements are now being made to send out parties to the Indian Ocean, the South Pacific, and to China and Japan, where the observations can be made. Eight parties will be sent out from the United States; two of which will go from the Observatory here. All the parties will sail next summer. The Naval Observatory here, with the new telescope, will be better equipped than any other institution of the kind in existence. The professors on duty there stand at the head of their profession, and the Washington Observatory is now regarded as the best in the world .- Washington Star.

Hoe's New Printing Press.—A new style of steam printing press, of the fast kind, specially intended for daily newspapers, has just been perfected and put in operation in London, by Messrs Hoe and Co.. the well known press makers of New York The new press is designed for the use of the London Daily Telegraph, a penny paper, said to have the largest circulation of any daily in the world. The improved machine on recent trial at Lloyd's paper mill, Bow, actually printed and delivered, in even piles, twenty-two thousand copies of Lloyd's Weekly, -a large sheet-in sixty minutes, with the attendance of two men and a boy. The sheets are delivered printed on both sides, and the number of newspaper impressions when the sheet is cut apart by the machine is forty-four thousand per hour. The machine is built on the rotary plan like the Bullock, Walter, and other presses, and is said to yield superior printing. The cost of each press is \$17,500. The *Telegraph* is to be supplied with ten of them, and thus have the means of throwing off 220,000 copies of the paper in sixty minutes.

Autographs by Telegraph.—A very curious and complicated transmitter, used in France, is an autographic instrument by which the fac simile of the handwriting can be produced at any other office where a similar instrument is usued. It is especially useful for messages relating to transfers of money, as it affords the receiver an opportunity to test the authenticity of the dispatch by the fac simile on the senders signature. It is said that on an average thirty messages an hour can be transmitted by it. The message is written on chemically prepared paper and the price varies with the size of the paper. This in-strument can transmit stenographic writing, and then its rapid paper and the price varies with the size of the paper. ity is said to be truly prodigious. Portraits and drawings can also be transmitted by it. This seems almost incredible. But the reader who has followed the explanations before given can form a general idea of the process by imagining that two great pendulums are made to swing simultaneously one at either end of the line. Each moves a metallic point back and forth over the surface of chemically prepared paper, and after every movement the position of the pencil is changed a hair's breadth down the page If, then, at the instant that the metallic point at one terminus is in contact with a line of the manuscript or copy, a telegraphic current is transmitted to the point at the other terminus, and passes thence through the paper, it will produce a discoloration, which will be a dot or a line according to the duration of the current if the autograph be closely inspected, it will be seen that it is made up of very fine parallel lines. Harpers Magazine for August.

Duplex Telegraphy.—According to the Scotsman, a system of "duplex" telegraph working, by means of a condenser, which splits the current of electricity and enables the operator to send messages through the cables in contrary directions at the same moment, has been successfully applied by the Eastern Telegraph (ompany. The electricians of that company, it is said, have surmounted all difficulties, and have proved the perfect applicability of the system to submarine telegraphy by practically adapting it to the section of the cables between Lisbon and Gibraltar (330 miles, and Malta and Alexandria (950 miles), and it is added that they fully expect to be able to apply it to the longer sections—between Malta and Gibraltar (1,1 0 miles),

been for some time known. It is highly ingenious and is described as consisting briefly in having a double line of wires at each instrument, one connecting the stations and the other passing to earth. These are coiled round a magnet in opposite directions, so that the battery currents are neutralized. In working, the transmitting line being clear, one operator works the other's instrument. If the two happen to signal at the same time, the two currents meet on the transmitting line and are conducted back through the earth wire, working each operator's own instrument. They thus see exactly what is amiss, and act accordingly At the same time it is reported that an American invent on, capable of transmitting messages through land wires at the rate of 500 words per minute, has been brought under notice, and that attempts are now being made to apply this also to submarine telegraphy. The first of these improvements alone promises to double the carrying capacity of all existing cables, and to add proportionably to their value

New Style of Paper—The English display at the Vienna Exhibition an original manufacture which is very strong and tough, and yet perfectly soft and pliable, like cloth. This is embossed and printed on, and is prepared for the purpose of hangings, curtains, &c., for which it seems well adapted; some of the rooms of the British Commission are furnished with this. It is simply tacked to the walls, so that it can be easily removed at any time. It is handsome cheap and durable.

Paper from Hops.—A discovery has been made, says the Garden, by a French firm of paper manufacturers, which seems likely to interest English hop-growers. At the last general assembly of French paper-makers, MM. Jourdeuil, Parizot, and Gusseo submitted some samples of a new textile fabric, namely, the sheath of the hop-stalk By removing this outer skin, and subjecting it to a certain chemical process, a textile substance possessing qualities which make rags so valuable in paper-making—length, suppleness, and delicacy of texture—has been produced. The invention has been patented.

A New Thermometer.—Dr. Hilliard has added another clinical thermometer to those in use, and a capital one it is. The Medical Press has very little doubt it will prove a success. Its chief point is that it shuts up like an ordinary pencil case, and then goes into the vest pocket. Thus, there is no separation between the handle or case and and the thermometer itself. The latter therefore cannot fall out, nor does it require so much trouble to put away after use. It has also the advantage of being increased to double its own length on opening it. The temperature consequently can be taken and read in positions in which it is not so easy to do it with the common pocket instrument. The case has fluted mounts, so that the instrument, whether open or shut, will not roll off the table. We may add that the degrees are marked very distinctly, and the finish of the instrument is all that could be desired and does great credit to the manufacturers—Messrs. Maw, Son, & Thompson—who have carried out Dr. Hilliard's suggestion.

Photographing the Transit of Venus.—M. Janssen's method for photographing the apparent contact of Venus with the edge of the sun is worthy of description. The photographic plate is in the form of a disc, fixed upon a plate which rotates upon an axis parallel to that of the telescope. Before it is placed another disc, forming a screen, in which is a small aperture, in order to limit the photographic action to the edge of the sun. The plate which carries the sensitive disc has 180 teeth, and is placed in communication with an escapement apparatus actuated by an electric current. At each second the pendulum of a clock interprets the current, and the plate turns one tooth, so that at each second a fresh portion of the photographic plate is exposed. Thus, in as many seconds, 80 images of the sun and the planet can be obtained. When the series relating to the first contact is obtained, the plate is withdrawn and another substituted, which gives the second contact, and so on for the four.

Exhalation of Carbonic Acid Gas.—The Archiv für Physiologic contains an account of Aubert and Lange's interesting researches on the quantity of carbonic acid exhaled in a given time from the kin of a man. The experiments were carefully made in an airtight chamber, in which the subject for experiment was seated, and through which a current of air, freed from carbonic acid, was steadily passing, while the proportion of carbonic acid in the air on leaving the chamber was estimated by transmission through bulbed tubes containing a solution of salt of barium. The results of these novel investigations lead to the

general conclusion that sixty-two grains of carbonic acid—a considerable amount, certainly—are exhaled from the body of a full-grown man, through the skin, in the course of twenty-four hours.

Embalming—The Brunetti method, by which Mazzini's body was recently embalmed, is said to be even more effective in the preservation of the dead than that of the ancient Egyptians. It consists of several distinct processes: 1. The circulatory system is cleared thoroughly by washing with cold water till it issues quite clear from the body. This may occupy from two to five hours. 2. Alcohol is injected, so as to abstract as much water as possible. This takes about a quarter of an hour. 3. Ether is then injected, to abstract the fatty matters. This occupies from two to ten hours. 4. A strong solution of tannin is then injected. This occupies, for thorough imbibition, from two to ten hours. 5. The body is then dried in a current of warm air passed over heated chloride of calcium. This may occupy two to five hours. The body is then perfectly preserved, and resists decay; and the Italians exhibit specimens which are as hard as stone, and retain perfectly every detail of form and feature.

New Views on Diabetes.—M. Lecorché has submitted to the Academy of Medicine of Paris the following opinions respecting the nature of diabetes:-- |. The current theories touching the pathology of diabetes refer only to certain varieties of glycosuria which have nothing to do with diabetes. They do not explain diabetic glycosuria. 2. Glycosuria, in diabetes, is only a secondary circumstance; the principal phenomenon is a tendency to disassimilation of protein substances. Diabetes may, in fact, be called azoturia. This disassimilation is the very essence of diabetes, and is characterized by the enormous quantity of urea which the patient is daily losing. 3. This protein disassimilation is the primary cause of glycosuria, which latter is simply an unimportant sequel of that cause. Protein disassimilation requires combustion, and during this combustion the oxygen leaves unattacked any glycosic substance formed in the economy; hence the existence in the united of a quantity of sugar which cuentity increases with the amount of sugar which quantity increases with the amount of urea. 4. These views of the pathology of diabetes are of capital importance as regards the treatment, for they pave the way to a rational mode of treating the disease. The theories hitherto offered do not admit of such a course, as they refer only to glycosuria. In viewing diabetes as M. Lecorché proposes (i.e. as azoturia, of which the glycosuria is the consequence) there is, he says, only one way of contending with the disease—namely, to endeavour, by every means in our power, to stop the loss of urea experienced by the patient. To attain this end we have only one mode of treatment at our command—the administration of cumulative remedies. Among these the principal are opium, arsenic, valerian, and perhaps bromide of potassium.—Lancet.

Antineuralgic Snuff.—The Rivista Clinica di Bologna mention s nn antineuralgic snuff prescribed with success in cases of facial neuralgia, by Dr. Scriffignano. The base of the snuff is quinine, and its composition as follows:—Citrate of quinine, ten grains, very strong; exciting snuff (tobacco), fifteen grains. The medicament is said to act almost directly on the diseased nerve through the ethmoidal thread of the nasal ramus of Willis's ophthalmic, a branch of the fifth pair.

M. James Baird, of Auchmedden, the Scotch ironmaster, has paid over to a body of trustees, to be called "The Baird Trust," the sum of \$2,500,000, to be applied for religious purpose in connection with the Church of Scotland. After providing for the endowment of the 'Baird Lectureship," lately founded for the illustration and defence of the vital truths of religion, and for the promotion of Christian knowledge and Christian work, M. Baird directs that the trust fund is to be expended "for the support of objects and purposes in connection with the Established Church of Scotland, all of a religious character, and for the aid of institutions having the promotion of such purposes in view, my grand object being to assist in providing the means of meeting, or at least as far as possible promoting, the mitigation of spiritual destitution among the population of Scotland, through efforts for securing the godly upbringing of the young, the establishing of parochial pastoral work, and the stimulating of ministers and all agencies of the Church of Scotland to sustained devotedness in the work of carrying the Gospel to the homes and hearts of all."

The French War Indemnity.—The 5th September was a glorious day for France. She has paid the last instalment of the enormous war indemnity to Germany—5,000,000,000 francs—and her territory is free. It was the 10th of May, 1871, when the Treaty was signed which provided for this indemnity. Within 30 days after French authority was restered in Paris, the payment of 500,000,000 francs was stipulated. During the year 1871, a thousand millions more were required. May 1, required another five hundred millions. The last 3,000,000,000 remained payable May 2, 1874 Now, eight months before the debt is due, the whole debt is paid. France, fresh from a wasting war has gathered up from the hoarded wealth of her people this vast sum of \$1,000,000,000—equal to half the National Debt of the United States. She has done it within two years and a quarter.

Eminent State Authorities on International Arbitration.—Her Majesty Queen Victoria (speech in proroguing Parliament, August 21st, 1871):— By the Treaty of Washington modes of Addist 2181, 1871; — By the Frenty of washington modes of settlement have been fixed for several questions which had long remained in dispute. The President has concurred with me in the application of that principle of amicable reference which was proclaimed by the Treaty of Paris (1856), and which I rejoice to have had an opportunity of recommending by example."—The President of the United States, General Grant (Message to Congress):—"The year (1871) has been eventful in witnessing two nations which speak the same language, adopting a peaceful arbitration for the settlement of disputes of long standing, and which were liable at one time to cause conflict. An example has thus been set which, if successful in its issue, may be followed by other civilized nations, and possibly be the means of restoring to productive industry the millions of men now engaged in military and naval employments."—Count Sclopis (President of the Geneva Tribunal of Arbitration in 1872, in a letter dated Turin, February 19th, 1873) :- "No one is more convinced than I am, of the importance, the utility, and the seasonableness of the formation of a code of public International law. All wise and enlightened publicists, and good men in general arc of this opinion. That which appears to me to be the best mode of procedure for the present is that some gentlemen, specially authorized, should raise their voices in the British Parliament, the United States Congress, and the French National Assembly, in order to propose the assembly of a congress for the desired object Allow me, however, to press upon you, before all thing, to raise proposals in the political legislatures. I am thoroughly persuaded that there is no better way of reaching any real and positive result. M. Drouyn de Lhuys (formerly Minister of State to Napoleon III; Letter dated Paris, March 6, 1873): - "The idea of submitting to arbitration conflicts between states was brought forward at the Conference of Vienna, at which the writer to this note assisted during the first months of the Russian war. Consecrated by the Treaty of Paris of 1856, it has too often remained inoperative. In trying to release it at present, we obey a sentiment which, evoked at that epoch, will not cease to provide the proper and civilized participations. manifest itself among all civilized nations, until it has obtained satisfaction. If any difference were to arise between two nations, what sovereign, what assembly, would dare to refer the decision to the terrible chances of battle, when there would be a law which had foreseen the case, and a tribunal of arbitration, the composition of which should be indicated or described? might be hoped by this means to banish or to diminish the terrible scourges that arise to imbrue Europe in blood. Right Hon, Earl Derby, (when Secretary of State for Foreign Affairs):—"Unhappily there is no interventional law by which parties can be required to refer cases of this kind. If such a tribunal existed it would be a great benefit to the civilized world."- (Speech on the Mermand difficulty with Spain, 1867).-Peace Society's Papers.

Tea. Coffee, Cocoa, and Alcohol—We extract from the British Medical Journal the conclusions of a French physician, Dr. Angel Marvaud, who has been experimenting on the physiological and therapeutical effects of coffee, tea, cocoa, mate or guarana [Paraguay tea], and alcohol, which he classes together as aliments of economy or anti-waste foods. He considers their influence or nutrition from two points of view: as stimulants to the nervous system, as anti-waste foods or anti-assimilators. Alcohol acts directly on the sensory apparatus of the spinal cord and indirectly on the motor apparatus. Cocoa acts directly on the motor apparatus, which it excites in the same manner

as strychnine. Coffee, tea, and mate act principally on the Alcohol and cocoa excite the exercise of the muscles; brain. coffee, tea, and mate, the exercise of thought. Further, by lessening the waste of the tissues, counteracting organic oxidation, and diminishing loss by means of the secretions, they all act as aliments of economy. In this way is explained their action in stimulating to work in the evening, in partly supplying the want of solid food, and in moderating vital combustion Hence arises their increasing consumption, and their more general use as articles of daily regimen, hence, too, their utility in alimentation, and their important place in hygiene. The abuse of these aliments has, it is true, two principal inconveniences. In the first place, the excitement of the nervous system which they cause is liable to be followed by fatigue, weakness, and even inertia. In the second place, by their interference with and reduction of the processes—indispensably nccessary to life-of combination, transmutation, and of decomposition, they may cause arrest, suspension, or even complete suppression of the nutritive changes in the cellular elements, and may produce as results, torpor, atony, fatty degeneration, and noerobiosis of the tissues Thus are explained alcoholism, coffeeism, theinism, and cocoaism.

Sir Henry Thompson on Alcoholic Beverages .- Sir Henry Thompson, the eminent surgeon, has addressed a letter to the Archbishop of Canterbury, in which he says he has long had the conviction that there is no greater cause of evil, moral and physical, in England than the use of alcoholic beverages. do not mean by this," he adds, "that extreme indulgence which produces drunkenness. The habitual use of fermented liquors to an extent far short of what is necessary to produce that condition, and such as is quite common in all ranks of society, injures the body and diminishes the mental power to an extent which I think few people are aware of. Such, at all events, is the result of observation during more than twenty years of professional life devoted to hospital practice, and to private practice in every rank above it. Thus, I have no hesitation in attributing a very large proportion of some of the most painful and dangerous maladies which come under my notice, as well as those which every medical man has to treat, to the ordinary and daily use of fermented drink taken in the quantity which is conventionally deemed moderate." Henry therefore rejoices to observe an endeavor to organise on a large scale in the national Church a special and systematic plan for promoting temperance. "My main object," he says "is to express my opinion as a professional man in relation to the habitual employment of fermented liquor as a beverage. But if I ventured one step further it would be to express a belief that there is no single habit in this country which so much tends to deteriorate the qualities of the race, and so much disqualifies it for endurance in that competition which in the nature of things must exist, and in which struggle the prize of superiority must fall to the best and to the strongest."

Census Statistics.—The "Tables of Occupation," which have just been completed at the census office, Washington show that the number of persons pursuing gainful occupations on the 1st of June, 1870, was 12,505,923; of these 1,836,487 were females. Of the total, 9,802,038 were born in the United States, 826,5 ½ in Germany, 949,424 in Ireland, 301,779 in England and Wales, 71,933 in Scotland, 109,681 in Sweden, Norway, and Denmark, 58,197 in France, 189,307 in British America and 46,300 in China and Japan. The occupation returning the largest number is that of planters and farmers, 2,982,573; farm laborers, ,880,045; the entire number engaged in agriculture including gardeners, dairymen, apiarists, etc., 5,922,471; in manufactures, mechanical and mining pursuits, 3,707,411; in trade and transportation, 1, 9,238; in rendering personal and professional services, 2,684,793. Under specific heads the principal were as follows: laborers, 1,031,666; domestic servants, 971,048; carpenters, 334,596; miners, 152,107; shoemakers, 172,127; tailors, 171,8 0; blacksmiths, 4,774; painters, 85,123; brick and stone masons, 89,710; in cotton mills, 111,606; in woolen mills, 58,836, in iron works, 81,000; teachers of all kinds, 136,570; physicians and surgeons, 62,383; clergymen, 43,874; lawyers, 40,736; journalists, 5,26; U. S. army and navy officers, 2,286; National, State, and Municipal civil officers, 44,743.

OFFICIAL DOCUM			Superior	4.—Male or Mixed Academ	IES.—(<i>C</i>	ontinuea	<i>l.</i>)
Education to Catholic Institution virtue of the provisions of Chapter 1 of Lower Canada, and of Chapter 16 1—CLASSICAL COLLI	s for t 5, Cons 5, 32 Vi	he year olidated	1872, in	INSTITUTION.		Grant for 1871.	Grant for 1872.
INSTITUTION.	No of Students.	Grant for 1871.	Grant for 1872.	Amount carried over Montmagny, St. Thomas Montreal, Commercial Academy Pointe-aux-Trembles, Hochelaga Quebec, Com. and Lit. Acad., St. Roch.	213 242 62	4917 225 1687 269 136	212 1585 255 000
Nicolet	297 240 165 212 2 0	\$ 1597 1597 1488 1637 1488	\$ 1501 1501 1501 1637 1501	Roxton	82 350 145 95 140	118 353 198 136 204	332 186 128 300
Ste Marie de Montréal	343 168	$\frac{1488}{1276}$	1501 1197	Total		\$8031	\$8027
Ste Marie de Monnoir	166	710	710	4. — FEMALE ACADEM	IES.		
Rimouski	120	1438	1438]	ų	ė.
Total		\$ 12719	\$ 12487	institution.	No. of Pupils.	Grant for 1871.	Grant for 1872.
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INSTITUTION.	No. of Students.	Grant for 1871	Grant for 1872.	St. Aimé	180 100 111 207	\$ 103 89 122 122	\$ 97 89 115 115
JolietteLaval	174 124	\$ 786 344	\$ 740 . 324	Baie St. Paul. Belœil. Berthier.	130 110 138	103 89 96	97 89 96
Longueuil	250	348	328	Boucherville	100	89	89
Masson Notre Dame de Lévis	334 154	1276 786	1197 740	ChamblySt. Charles de l'Industrie		137 181	129 170
Rigaud		786	740	Châteauguay	140	89	89
SherbrookeSt. Laurent		269 622	300	Les Cèdres		89 116	89 114
St Michel Bellechasse	105	607	565	St Clément	201	137	128
VarennesVerchères	120 86	$\frac{269}{344}$	254 320	Ste. Croix		137 89	128 89
Ste. Marie, Beauce Schools of Applied Science and Art	141	454 2500	427 2000	St. Denis, St. Hyacinthe Ste. Elizabeth, Joliette	150	89 181	89 170
Total		\$9391	\$8521	St. Eustache	129	94 17 4	94 164
3.—Male or Mixed A			1 40021	Ste. Geneviève, Jacques-Cartier	113	135	128
5.—MALE OR MIABD A	CADEMI	T=		St. Grégoire, Nicolet		206 89	194 89
INSTITUTION.	No. of Pupils.	Grant for 1871.	Grant for 1872.	St. Hilaire	67 230 237 74	89 122 122 122 120	89 115 115 115 113
A-1		\$		Isle Verto	205	181	170
AylmerBaie du Febvre		204 136	192 128	St. Jean Dorchester		206 272	194 256
Baie St. Paul	94	161	142	St. Joseph, Lévis	308	272	256
Dagarla	234	204	192	Cacouna		152	143
		303	907				
BelœilBerthier en haut	68 60	303 303	$\frac{285}{285}$	Kamouraska	102	137	
BelœilBerthier en hautBonin, St. André d'Argenteuil	68 60 80	303 204	$\frac{285}{192}$	Kamouraska Laprairie St. Laurent, Jacques Cartier	102 196 180	137 89 181	170
BelœilBerthier en hautBonin, St. André d'Argenteuil Buckingham	68 60 80 134	303 204 136	285 192 128	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin	102 196 180 142	137 89 181 89	170 89
Belœil	68 60 80 134 120 199	303 204 136 159 233	285 192 128 400 223	Kamouraska Laprairie St. Laurent, Jacques Cartier	102 196 180 142 344 30	137 89 181 89 272 137	89 170 89 256 128
Belœil Berthier en haut Bonin, St. André d'Argenteuil Buckingham Chambly St. Columban of Sillery St. Cyprien	68 60 80 134 120 199 136	303 204 136 159 233 136	285 192 128 400 223 128	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine	102 196 180 142 344 30 305	137 89 181 89 272 137 189	89 170 89 256 128 178
Belœil	68 60 80 134 120 199 136 60	303 204 136 159 233	285 192 128 400 223	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire	102 196 180 142 344 30 305 270	137 89 181 89 272 137	89 170 89 256 128 178 102
Belœil Berthier en haut Bonin, St. André d'Argenteuil Buckingham Chambly St. Columban of Sillery St. Cyprien Dufresne, St. Thomas Montmagny St. Eustache Farnham	68 60 80 134 120 199 136 60 164 223	303 204 136 159 233 136 233 204 179	285 192 128 400 223 128 223 192 170	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie de Monnoir	102 196 180 142 344 30 305 270 150	137 · 89 181 89 272 137 189 108 152 137	89 170 89 256 128 178 102 143 128
Belœil Berthier en haut Bonin, St. André d'Argenteuil Buckingham Chambly. St. Columban of Sillery St. Cyprien Dufresne, St. Thomas Montmagny. St. Eustache. Farnham Gentilly	68 60 80 134 120 199 136 60 164 223 49	303 204 136 159 233 136 233 204 179	285 192 128 400 223 128 223 192 170 128	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie de Monnoir St. Martin	102 196 180 142 344 30 305 270 150 131	137 89 181 89 272 137 189 108 152 137 89	89 170 89 256 128 178 102 143 128 89
Belœil Berthier en haut Bonin, St. André d'Argenteuil Buckingham Chambly St. Columban of Sillery St. Cyprien Dufresne, St. Thomas Montmagny St. Eustache Farnham Gentilly Girouard St. Gregoire	68 60 80 134 120 199 136 60 164 223 49 118 65	303 204 136 159 233 136 233 204 179 136 138	285 192 128 400 223 128 223 192 170 128 128 128	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie de Monnoir	102 196 180 142 344 30 305 270 150 13) 95 120	137 89 181 89 272 137 189 108 152 137 89 206 194	89 170 89 256 128 178 102 143 128 89 194 183
Belœil Berthier en haut Bonin, St. André d'Argenteuil Buckingham Chambly St. Columban of Sillery St. Cyprien Dufresne, St. Thomas Montmagny St. Eustache Farnham Gentilly Girouard St. Gregoire L'Islet	68 60 80 134 120 199 136 60 164 223 49 118 65 163	303 204 136 159 233 136 233 204 179 136 138 138 136 204	285 192 128 400 223 128 223 192 170 128 128 128 128 300	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie de Monnoir St. Martin St. Michel, Bellechasse Providence Deaf and Dumb Académy, St. Dénis, Congregation	102 196 180 142 344 305 270 150 13' 95 120	137 89 181 89 272 137 189 108 152 137 89 206 194 169	89 170 89 256 128 178 102 143 128 89 194 183 160
Belœil. Berthier en haut. Bonin, St. André d'Argenteuil Buckingham. Chambly. St. Columban of Sillery. St. Cyprien Dufresne, St. Thomas Montmagny. St. Eustache. Farnham. Gentilly. Girouard. St. Gregoire. L'Islet. St. Jean. St. Jean. St. Jean, Montmorency.	68 60 80 134 120 136 60 164 223 49 118 65 163 178	303 204 136 159 233 136 233 204 179 136 138	285 192 128 400 223 128 223 192 170 128 128 128	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie de Monnoir St. Martin St. Michel, Bellechasse Providence Deaf and Dumb Académy, St. Dénis, Congregation	102 196 180 142 305 270 150 131 121 161 170	137 89 181 89 272 137 189 108 152 137 89 206 194	89 170 89 256 128 178 102 143 128 89 194 183 160 89
Dufresne, St. Thomas Montmagny St. Eustache Farnham Gentilly Girouard St. Gregoire L'Islet St. Jean St. Jean, Montmorency Kamouraska	68 60 80 134 120 199 136 60 164 223 49 118 65 163 178 108 89	303 204 136 159 233 136 233 204 179 136 138 204 424 136 301	285 192 128 400 223 128 223 192 170 128 128 300 400 128 283	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie, Beauce Ste. Martin St. Michel, Bellechasse Providence Deaf and Dumb Académy, St. Dénis, Congregation St. Nicolas St. Paul, Industrie	102 196 180 142 344 305 270 150 150 161 170 186 115 91	137 89 181 89 272 137 189 108 152 137 89 206 194 169 89 89	89 170 89 256 128 178 102 143 128 89 194 183 160 89 89
Belœil. Berthier en haut. Bonin, St. André d'Argenteuil Buckingham Chambly. St. Columban of Sillery St. Cyprien Dufresne, St. Thomas Montmagny. St. Eustache Farnham Gentilly Girouard St. Gregoire L'Islet St. Jean St. Jean, Montmorency. Kamouraska Laprairie, (increase promised).	68 60 80 134 120 136 60 164 223 49 118 65 163 178 100 89 140	303 204 136 159 233 136 233 204 179 136 138 136 204 424 424 136 301	285 192 128 400 223 128 223 192 170 128 128 300 400 128 283 300	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie, Beauce Ste. Martin St. Michel, Bellechasse Providence Deaf and Dumb Académy, St. Dénis, Congregation St. Nicolas St. Paul, Industrie Pointe Claire Pointe claire Pointe aux-Trembles, Hochelaga	102 196 180 142 344 305 270 150 150 161 170 86 115 91	137 89 181 89 272 137 189 108 152 137 89 206 194 160 89 89 89	89 170 89 256 128 102 143 128 183 160 89 89 89
Belœil. Berthier en haut. Bonin, St. André d'Argenteuil Buckingham. Chambly. St. Columban of Sillery St. Cyprien Dufresne, St. Thomas Montmagny St. Eustache. Farnham Gentilly Girouard St. Gregoire L'Islet St. Jean St. Jean, Montmorency. Kamouraska	68 60 80 134 120 199 136 60 164 223 49 118 65 163 178 100 89 149	303 204 136 159 233 136 233 204 179 136 138 204 424 136 301	285 192 128 400 223 128 223 192 170 128 128 300 400 128 283	Kamouraska Laprairie St. Laurent, Jacques Cartier St. Lin Longueuil Longue Pointe, Hochelaga Convent Lachine N. D. de la Victoire Ste. Marie, Beauce Ste. Marie, Beauce Ste. Martin St. Michel, Bellechasse Providence Deaf and Dumb Académy, St. Dénis, Congregation St. Nicolas St. Paul, Industrie	102 196 180 142 344 305 270 150 150 161 170 86 115 91	137 89 181 89 272 137 189 108 152 137 89 206 194 169 89 89	89 170 89 256

4. – Female Academies. – (Continu	ed.)		5.—Model Schools.—(C	ontinue	d.)	
INST:TUTION.	No. of Pupils.	Grant for 1871.	Grant for 1872.	institution.	No. of Pupils.	Grant for 1871.	Grant for
Amount carried over		\$ 6808	\$ 7057	• Amount carried over		\$ 5820	\$ 5812
Amount carried over	94	157	148	St. Pierre de Charlesbourg	90	56	56
te. Scholastique	115	97	97	Charlesbourg, (Boys)	74	56	56
herbrooke	304	272	256	" (Girls)	50	56	56
orel	500	314	296	Eboulements.	60	73	73
errehonne	120	89	89	Ecureuils	116	56	56
te. Thérèse	142	89	89	Escoumains	64	73	78
Timothée	95	121	114	Etchemin, Village	230	100	100
Thomas de Pierreville	80	137	128	Grande Baie, (Boys)	36	73 -c	73
" Montmagny	226	206	194	(01113)	39 63	56 73	56 73
rois Pistoles	103 312	120 206	113 194	Grande Rivière	80	56	50
rois-Rivièresaudreuil	118	89	89	Honryville.	57	56	50
arennes	97	152	143	" Convent	146	56	50
amachiche	140	137	128	Huntingdon	73	73	73
ouville	100	137	128	Hébertville	108	100	100
				Iberville		73	73
Total		\$ 9721	\$ 9263	" (Girls)	160	56	5
	!	l .		L'acadie	92	73 73	7.
				Lacolle	83	73	7:
5Model School	Ls.			Lotbinière		73	7
J ICODED DE LOCAL				" Convent		73	7
	1	2	<u> </u>	Maîtrise St. Pierre, Montreal		200	18
	s.	for.	Grant for 1872.	La Pêche	68	56	5
INSTITUTION.	P. C.	7±	물란	Maria	40	73	7.
	No. of Pupils.	Grant 1871	£ ∞	Malbaie		73	7.
		3	3	Matane	88	56	5
	1	8	8	Female School, Visitation Street	1215	73	7
ducation Society, Quebec	515	944	1094	Model Schools of Cath Com., Montreal		946 56	88
" Three Rivers	362	457	430	Nicolet, Girls	145	146	18
ndians of Lorette (Boys)		162 50		Notre-Dame de Hull, (Boys)		73	7.
" (Girls)	22	162 50		Notre-Dame de toute Grâce, Convent.		73	7
" St. François		152	143	Notre-Dame du Portage		56	5
t. Jacques, Montreal	612	757	712	Nouvelle		100	10
he Catholic Commissioners of Quebec	007	304	286	Percé		56	5
eton Vale (Convent)rthabaskaville	285 45	146 56	138 56	Pointe-Claire.		136	12
ylmer, Convent	90	146	138	Pointe-aux-Trembles, Portneuf Pointe du Lac	72	73 73	7.
nge Gardien	73	73	73	Portneuf, (Boys)		56	5
agotville	70	56	56	" (Girls)		56	5
eaumont	72	73	73	Quebec, St. Roch, South		168	15
eauport	106	73	73	" Convent		73	7
erthier, Montmagny	102	73	73	" St. John's Suburbs		73	7
écancour	75	121	114	Rawdon, diss	36	73	7
oucherville	118	73	73	" Convent	40	73	7
aie du Febvre	193	73 56	73	Rigaud, Female Academy		73	7
atiscan p St. Ignace	97	100	56 100	Rivière Ouelle		73 56	7 5
ap Rouge		100	100	Rivière des Prairies		73	5
t. Félix du Cap Rouge, Dame Thivierge	17	56	56	" " Fraserville Témiscouata		73	1 7
arleton		100	100	" " (Convent).		73	7
håteauguav	60	73	73	Sault-aux-Récollets		73	7
hàteau Richer, (Boys)	80	73	73	Sherrington	130	89	8
" " (Girls)	106	51	51	Somerset de Plessisville		185	17
hicoutimi	98	166	157	Stanfold		56	5
ôte des Neiges	100	73 73	73 73	Soulanges		73	7
ôteau du Lac, (Boys) " " (Girls)		56	56	Shawinigan		56 168	15
6teau St. Louis		73	73	St. Alexandre, Iberville, (Convent)	132 114	56	15
" Convent	90	73	73	(Boys)		73	7
hicoutimi, Convent		146	138	" Kamouraska		73	7
arleton. "	61	194	183	St. Anicet		56	5
Deschambault, (Boys)		136	128	St. André, Kamouraska	81	73	7
" (Girls)	102	73	73	Ste. Anne Lapérade	111	160	15
hamplain	136	73 73	73 73	" des Plaines	103	73	7
0				" No. 2, Kamouraska	105	*****	18
Champlain, Convent	141			1 Lot a, Izailiottiaska	100	200	1
hamplain, Conventoaticook	144	100	100	Amount to be carried		 	11,90

INSTITUTION.	No. of Pupils.	for	<u> </u>		}	B4 1	١ .
	Pul	Grant for 1871.	Grant for 1872.	institution.	No. of Pupils.	Grant for 1871.	Grant for 1872.
Amount carried over		\$ 12103	\$ 11961	Amount carried over		\$ 17523	\$ 16210
t. Anselme		73	73	St. Jean, Port Joly, (Girls)	33	73	90
t. Antoine de Tilly		73	73	St. Jérôme, Convent	160	73	73
t. Apollinaire	86	73	73	" (Boys)	139	146	138
te. Anne de Bellevue	89	73	73	St. Joachim, Deux Montagnes	94	73	73
t. Ambroise	47	56	56	St. Joseph, Chicoutimi		56	56
t. Ambroise, Quebec	815	73	73	Ste. Julie de Somerset	126	56	56
t. Angélique, Papinauville	78	56	56	St. Joseph de Lévis Beauce		150	141
te. Agnès, Charlevoix	43	56	56	St. Jean, Dorchester		$\begin{array}{c} 73 \\ 100 \end{array}$	100
te. Agapit	53	56	56 56	St. Lambert de Lauzon	69	. 96	97
te. Brigide, Iberville	81 70	56 73	73	St. Laurent de Montmorency		73	73
t. Barthélemy, Berthieruckingham, Convent	40	73	73	St. Léon.	1 1	56	56
te, Croix	57	56	56	St. Lin	: 1	73	73
te. Cécile, (Boys)		73	73	St. Louis de Gonzague	120	56	56
" Convent		103	97	" " Convent	119	56	56
t. Césaire		194	183	St. Luc, St. Jean		56	56
t. Charles, Bellechasse	47	73	73	Ste. Luce		56	56
" Girls	. 60	73	73	St. Liguori, Convent	92	146	38
" St. Hyacinthe		73	73	Longue-Pointe, Hochelaga		73	173
t. Colomb de Sillery		200	188	St. Mathias, Rouville		56 72	56 73
te. Claire	. 80	73	73	St. MartinSte. Martine, (Boys)	77	73 56	56
t. Célestin, Nicolet, (Convent)		100	100	" (Girls)		56	56
St. Constant	. 112	103 194	97 183	St. Michel, Archange, Napierville		56	56
St. Christophe (Convent)	. 156 . 70	73	73	" Convent	106	78	78
Cap Santé, Portneuf		56	56	Ste. Monique	91	73	73
ste. Cécile du Bicst. Dénis, Kamouraska	. 84	73	73	St. Maurice	1:	73	73
" de St. Hyacinthe	51	73	73	St. Marc, Verchères	70	73	73
st. David, Yamaska		100	100	St. Narcisse	104	73	78
Orummondville		73	00	St. Nicolas		73	78
St. Dunstan		73	73	St. Norbert, Arthabaska		56	56
St. Edouard, Napierville	. 127	73	73	" Cap Chatte		73	78
Ste. Elizabeth, Joliette	. 71	73	73	St. Octave de Métis		56	56
Ste. Flavie	. 119	56	56	St. Ours, Couvent-Ville		73	73
St. François du Lac, (Parish)	. 98	56	56	" (Boys)		78 73	73
St. François rivière du sud, (Convent)	.∥ 90	72	72	St. Paschal		56	56
Ste. Famille	$ \cdot $ 52	73	73	Ste. Philomène		73	78
Ste. Foye	70		73 73	St. Pierre de Durham		56	0
St. François du Lac, (Village)	90 79		72	St. Philippe		73	7
St. Félix de Valois		73	00	S. Pierre les Becquets	77	56	5
St. Frédéric, Drummond St. Ferdinand, d'Halifax	. 44	1	56	St. Polycarpe, (Boys)	. 70	73	7
Ste. Geneviève, de Batiscan	68	1	73	" Convent	. 146	73	7.
" Jacques-Cartier	75		56	St. Roch de l'Achigan		73	7
St. George, Cacouna			56	St. Romuald de Lévis		73	7
Ste. Gertrude		73	73	Ste. Rose		73	1 7
St. Gervais, Convent		73	73	St. Raphaël	74	56	5
" (Boys)	54		73	St. Roch des Aulnets	25 80	56	5 7
St. Grégoire le Grand			100	St. Sévère Ste. Scholastique		73 73	7
St. Gabriel de Brandon			100	St. Stanislas, Champlain	140		7
" Convent		1	56	" Beauharnois		73	7
St. Henri de Mascouche	f		73 73	St. Sylvestre, Lotbinière	60	56	5
St. Henri, Hochelaga			138	Trois-Pistoles, No. 1, Témiscouata	. 82		7
" de Lauzon			78	St. Thomas de Pierreville	. 106	73	1 0
St. Hermas, Deux-Montagnes St. Hilaire			73	Trois-Rivières, Sœurs de la Providenc	e 130	100	10
St. Hubert			56	Ste. Ursule, Maskinongé	. 107		5
Ste. Hélène, Kamouraska	7		56	St. Valentin, St. Jean			5
St. Henri, Hochelaga, Convent	29		56	St. Vincent-de-Paul, Convent	126		7
Hemmingford, Huntingdon, Convent.	9:	73	73	" " (Boys)			5
St. Irénée		5 73	73	St. Vallier, (Boys)			7
St. Isidore, Laprairie	94		73	" Convent	. 80 144		10
St. Jacques le ineur	110		97	Waterloo, Shefford	. 143		10
St. Jean Bte. Village	29:		73	Wotton, Wolfe			18
" Chrysostôme de Châteaugus			56	Victoriaville	205		1 5
" Lévis			56 73	St. Zotique			
" Deschaillons	3		90	~			
" Port Joly, (Boys),,,,	,,, 3	3 73	00	Total		22,329.	00/21.8
		17523	-	1	11	1 '	

NEW APPLICAN	TS.			2.—CLASSICAL CO	OLLEGES		
INSTITUTION,		No. of Pupils.	Grant for 1872.	INSTITUTION.	No. of Students.	Grant for 1871.	Grant for 1872.
INDUSTRIAL COLLEGE. Notre-Dame de Lévis	• • • • • • • • • • • • • • • • • • • •	230	\$	St. Francis, Richmond	. 48 8	\$ cts. 587 66 369 98	\$ cts.
MALE OR MIXED ACADEMIES. Arthabaskaville	••••••	113	167	Total		\$957 64	\$957 64
COMMERCIAL SCHOOL.		12	200	3.—Industrial Co	LLEGES.		
Model Schools.			200		1	T ====	
St. Arsène	••••••	80 42	56 36	INSTITUTION.	No. of Students.	Grant for 1871.	Grant for 1872.
St. Augustin	••••••••	40 84	60 60 56	Lachute	. 152	\$ 18 4 99	\$ 184 99
St. Félix du Cap Rouge. St. Culthbert Gentilly, Nicolet St. Hubert	••••••	70 56 100 78 54	100 100 80 160 56 80	4.—Male or Mixed A	I CADEM	ies.	
St. Placide Sisters of Charity and Good Shepherd. Somerset de Mégantic, Convent. St. Ursule, Convent St. Zéphirin. Kingsey		883 69 62	56 100 150 56 56 56	INSTITUTION.	No. of Pupils.	Grant for 1871.	Grant for 1872.
Total			1	AylmerSt. Andrew's, Argenteuil	CO	\$ ets. 129 52 57 37	\$ cts. 129 52
Table of the Apportionment of the Greducation to Protestant Institution virtue of the provisions of Chapter of Lower Canada and of Chapter 16.—University	ns for t 15, Cons 5, 32 Vic	he year	1070	Barnston Bedford Charleston Clarenceville Clarendon Coaticook Compton Cookshire Danville Dudswell Dunham Eaton Farnham St. Foye Frelighsburg Georgeville Granby Huntingdon St. Jean Knowlton	63 119 65 29 65 126 71 41 171 30 105 65 34 40 42 41 119 114 86	86 35 90 06 173 92 170 82 86 35 75 91 86 35 129 52 86 35 170 82 145 66 129 51 86 35 114 07 88 14 170 83 191 18 205 39 170 83	57 37 86 35 90 06 173 92 170 82 86 35 75 91 86 35 129 52 86 85 170 82 145 66 129 51 86 35 114 07 88 14 170 83 191 18 205 39 170 83
McGill College	87	\$ ets. 1369 49 271 00 979 18 \$2619 67	\$ cts. 1369 49 271 00	Missisquoi Philipsburg Shefford Sorel Stanbridge Stanstead Sutton Sherbrooke Cowansville	38 110 63 36 150 35	131 98 88 14 197 96 76 49 133 22 305 86 107 13 189 32 86 95	131 98 88 14 197 96 76 49 133 22 305 86 107 13 189 33 86 95
				Total	• • • • • • •	\$3948 7 1 \$	4048 71

5.—Model Schools.

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INSTITUTION.	No. of Pupils.	Grant for 1871.	Grant for 1872.
St. Andrew's School, Quebec	91 185 160 81 976 46 34 91 171 85 68 70 41 52 92 45 112 345	S cts. 193 63 96 86 421 78 213 99 142 47 384 80 96 23 96 23 34 57 45 05	193 63 96 86 421 78 213 78 142 47 384 80 96 23 34 57 45 05 45 05
Total		\$1790 62	\$1790 62

NEW APPLICANT.

Model School.	No. of Pupils.	Grant for 1872.	
Marbleton	39	\$ ets. 50 00	

Meteorology.

-Observations taken at the Montreal Observatory, Lat. 45 ° 31' North; Long. 4h. 54m. 17 sec. West of Greenwich; Height above the level of the sea, 182 feet;—for the month of June, 1873.—By Charles SMALLWOOD, M. D., LL. D., D. C. L.

DAYS.	Baron	neter at	320		in hou			Miles in 24 hours.		
_	7a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m	7a m	2p m	9p m	
1	30.150	30.018	29.998	52,5	70.3	64.7	11.	W.	w	257.33
2	.320	.211	30.158	52,6	69.8	60.3	NE	S W	S	155.43
3	.275	.204	.100	52.2	70.3	62.5	N E	NE	N	157.29
4			29.500		62.1	59.5	8	s	NE	107.28
.,		.524			69.1	63.0	NE	w	w	155.75
6					67.3	63.0	W	w	N	85.32
7			30.120		69.2	60.0	N E	W	w	86.64
8		30.231			71.8	68.1	ΝE	ΝE	NE	55.73
9		.100	.000	56.5	76.1	70.5	NE	ΝE	NE	89.20
10	29.950		29.800	61.3	82.5		sb w	S	s	99.85
11	.698	.816		67.2	72.2	6.00	w	w	w	156.36
12			30.178		68.1	63.0	N W	W.	w	75.39
13		.167	.051		73.0	68.5	w	w	w	107.28
14			29.899		74.1	67.0	8	S	S	116.67
	29.911	.825	.795	62.5	75.0	69.2	S	s w	8	86.10
16		.760	.698		74.4	68.4	W	W	W.	189.43
17		.980			70.0	64.8	N W	W	w	123,39
18					69.0	73.5	E	s	8	88 18
19					68.9	64.8	NE	s	w	145.57
20		.516			70.0	61.8	w	W	W	158.27
21			.914		65.1	57.5	w	N.M.	N	75.83
			30.136		61.0	61.1	NE	ΝE	NE	56.94
23			.125		73.2	69.4	S	S	s	72.38
24			.168		80.3	72.5	s	SE	SE	69.32
25		.371	.372		80.9		N	NE	NE	61.44
26		.256		69.8	82.1	76.8	w	W	w	130.35
27	.051		29,832	67.2	81.9	77.0	11.	W.	w	232.24
	29.776	.875	.880	72.5	79.1	73.0	W	NE	NE	65.28
29	.826	.776	.761		83.0	78.3	NΕ	M.	М.	85.23
30	.710	.724	.731	73.1	79.9	75.1	8	S	8	183.77

Remarks.—The highest reading of the Barometer was at 5 a.m. of the 26th day, and was 30.376 inches; the lowest reading was on the 19th day, at 11.20 p.m. and was 29.420 inches. The monthly mean was 29.909 inches, and the monthly range 0.956.

The highest Temperature was on the 27th day, 85°2′, and the lowest on the 1st day, 48° giving a range or climatic difference of 37°2′. The mean temperature of the month was 77°01′.

Rain fell on 13 days, amounting to 3.912 inches, and was accompanied by thunder on 5 days and hail on one day.

-Observations taken at Halifax, N. S., during the month of
June, 1873; Lat. 41 = 39' North; Long. 63 = 36' West: height
above the Sea. 125 feet, by Sergt, John Thurling, A. H. Corps.
Barometer, highest reading on the 25th 30.268 inches
" lowest " 20th 29.406
" range of pressure 0.862
" mean for month (reduced to 32°)
Thermometer, highest in shade on the 29th 83.3 degrees
" lowest " " 4th 31 9
ange in month 51.4
mean of all highest 68.9
mean of all lowest
" mean daily range26.7
mean for month
mignest reading in sun 8 rays instrument bloken
towest reading on the grass
Hygrometer, mean of dry bulb
mean of wet building 11.
mean acw point
i Clastic force of valuations 3.56
weight of vapour in a cubic foot of air
the figure of humidity (Sat: 100)
" average weight of a cubic foot of air 530.6
Wind, mean direction of North 9.75 days.
East
" South 725
West
daily force 2.5
" daily horizontal movement 270.3 miles.
Cloud, mean amount of 0-10 6.2
Ozone, mean amount of 0-10

Rain, No. of days it fell

3.34 inches. 4 days.

Amount collected on ground Fog, No. of days

Aurora Borcalis, number of nights

—Observations from the Records of the Montreal Observatory, Lat. 45°31' North; Long. 4h. 54m. 17sec. West of Greenwich; Height above the level of the sea, 182 feet,—For the month of July, 1873.—By Charles Smallwood, M.D., LL.D., D.C.L.

DAYS.	Baroı	neter a	32 =		Temperature of the Air. Direction of Wind.			Miles in 21 hours.		
=	7 a. m.	2 p. m.	9 p. m.	7 a. m.	2 p. m.	9 p. m.	7a m	2p m	9pm	nours.
1	29,776	29.778	29.801	75.2	74.0	70.5	3	s	W	126.43
2	30.000	30.080	30.020	69.2	80.0	70.5	<i>N</i> .	W	W	86.87
3	29.964		29.858		79.8	76.3	SW	W.	W	125.40
4		.882			74.0	75.9	W	W.	Ж.	112.08
ં		.704			81.5	75.0	W	W	W.	156.72
6					76.6	69.0	N	N	N	82.89
7	30.025		29.946		8.11	70.5	N = W	W	<i>M</i> .	75.25
8					79.5	70.0	W	W	W	74.51
	30.033				74.5	69.0	N W	NE	W	80.55
10					79.6	67.0	W	W	W	89.21
	2 9.960				70.0	67.4	ΝE	ΝE	NE	100.00
	30.167				74.0	68.5	NE	W	W	125.10
13					79.9	70.2	W	s	W	102.76
14					87.6	76.1	W.	W.	W.	160.90
	29.931			(1	82.8	74.0	W	NE	N	109.02
	30.100				72.5	68.6	N	W	W	88.98
	29.961				65.0	60.5	w	SE	W	80.36
18					64.0	60.1	К	E	S W	105.68
19					71.0	63.0	s	8	W.	158.40
20					68.2	64.1	W.	M.	M.	195,11
21					74.9	69.5	W	NNW	NNW	
	30.100				80.5	72.6	W.	W.	w	150.75
23					81.0	77.2	W	H.	W	285.35
	29.950				82.6	71.4	W	W	W	71.73
25					76.6	76.8	M.	S W	W	176.42
26	,				76.3	70.8	W	W	H.	81.42
27					78.2	73.0	WSW	1	s	71.98
28			.108		85.1	76.5	N	NE	NE	79.84
29					79.9	74.1	S W	W	W	139.95
30			30.998		81.5	75.6	M.	W	W	139.18
31	30.102	.187	1 .100	70.0	35.6	76.1	M.	SW	. W.	91.0

REMARKS.—The highest reading of the Barometer was at 8 a.m. of the 31st day, and was 30.203 inches; the lowest reading was at 3 p.m. on 5th day, 29.704 inches. The monthly mean was 29.966 inches, and the monthly range 0.599.

The bighest Temperature was on the 14th day, and was $90 \circ 0$. The lowest was on the 12th day, and was $51 \circ 3$.

The monthly mean was $71 \circ 82$, and the monthly range or climatic difference 35 ° 7.

-OBSERVATIONS taken at Halifax, Nova Scotia, during the month
of July, 1873; Lat: 44 9 39' North; Long. 63 9 36' West; heigh
above the sea, 125 feet, by Serg't John Thurling, A. H. Corps.
Barometer, highest reading on the 29th 30.231 inches.
" lowest " " 15th
" range of pressure 0.608
mean for month (reduced to 32 °) 29.838
Thermometer, highest in shade on the 24th
" lowest " " 18th 37.4
" range in month 51.9
" mean of all highest
" mean of all lowest 51.1
" mean daily range 26,7
• mean for month
" highest reading in sun's raysInstrument broker
" lowest reading on the grass 32.8 degrees.
Hygrometer, mean of dry bulb
" mean of wet bulb
" mean deduced dew point 58.9
" elastic force of vapour
weight of vapour in a cubic foot of air 5.5 grains.
" weight required to saturate do 1.8
the figure of humidity (Sat. 100)
" average weight of a cubic foot of air 522.9 grains.
Wind, mean direction of, North 8.25 days.
" East 1,25
South
West 10.00
Calm 0.50
" daily force (0-12)
" daily horizontal movement262.6 miles,
Cloud, mean amount of (0-10)
Ozone, mean amount of (0-10)
Treating the same services in the entire the service services and the service services and the service services and the services are services and the services and the services and the services are services and the services and the services and the services are services and the services and the services are services and the services and the services are services are services and the services are services and the services are services and the services are services are services and the services are

Rain, number of days it fell. 1.8 Amount collected on ground. 4.49 Fog, number of days. 8 Aurora Borealis. 4
-OBSERVATIONS taken at Halifax. Nova Scotia, during the month of August, 1873; Lat. 44° 39' North; Long. 63° 36' West; height above the sea, 125 feet, by Sergt. John Thurling, A. H. Corp's. Barometer, highest reading on the 18th
· range of pressure
mean for month (reduced to 32°) 29.892 Thermometer, highest in shade on the 31st
" lowest " " 28th 40.2
" range in month
· mean of all highest
· mean daily range 25.1
mean for month 63.3
highest reading in sun's raysInstrument broken
lowest on the grass 28 0 degrees.
Hygrometer, mean of dry bulb
mean of wet bulb 62.0
mean dew point 57.8
" elastic force of vapour
weight of vapour in a cubic foot of air 5.2 grains. weight required to saturate do 2.1
weight required to saturate do 2.1 the figure of humidity (5at. 100)
average weight of a cubic foot of air524.1 grains.
Wind, mean of direction North
Wind, in an ordinection Action 1. 5 days.
South 8.25
west 9.75
Calm 1.50
daily force 2.2
daily horizontal movement267.5 miles.
Cloud, mean amount of (0-10)
Ozone, mean amount of (0-10) 2.4
Rain unmber of days it fell
Amount collected on ground
Aurora Borealis
Fog, number of days

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