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# JOURNAL OF EDUCATION. 

Volume IV.
Montreal, (Lower-Canada) March, 1860.
No. 3.
s:MALARY.-Edtcation: 'She Colleges of Canada-The University of Turomo. by Hon. Pierte Chauvenu, (continued). Nehool Days of Ent :cin Men an ureat Bntan, by J. F. Timbs, (continued).-Suggesuve hass on prartical secular insiraction, by the Rev. R. Dawes, A. M., 11ik, Natural Phalosophy; (enninued). The man who knows how in read and 10 vorme, translated from the lifench of Emile Souvestre, by II. G. M. - Thoughts for reachers - The 1 wo candedates.Orpiclas Norices-Appointments: School lispociors.-School CommissionersSeparation and crection of school mumeppalitics - Diplomas granted by Boands of Examiners-Situations wanted-Donntions made to the library of the Depart-ment-Edrional : Educalion in Vpper Canada, - Report of the Chite Sujermtondent of puble Instruction for Upper Canala, for 185s. - Penth meeting of Teachers of the Jaceques-Cartuce Normal schwul Associanon. - Annth inceang of Teachers of the Laval Normal School Association--Annual Report of the Teachers' Association in connexiou wath the AIcGtil Normal School.- Report of the Chef Superintendeut of Public Instrucuon for Lower Canada. for 1858-Extracts from the Reports of the Inspectors of schools.-Mosthly Sempaby : Educatonal melle Eence.-Litcrary intelligence.-Scientife intelligence.-Estatistical intelligence.ADVERTISEIENIS.

## EDUCATION.

## THE COILEGES OF CANAYA.

## III.

## The University of Toronto.

(Continued from our last.)
The announcement, of collrse, gave the clue to the vote. But although abaidoned, Mr. Draper's bill had sealed the fate of the old University. In the event of Mr. Baldwin returning to power, the existing state of things could only be maintained by Mr . Lafontaine being deserted on that question through the fears or the scruples of some of his friends. But how could the members for Lower Canada refuse any longer to Mr. Baldwin that whinh hau been proclaimed as necessary by a conservative Admunstration? How could they any longer oppose that which so clearly appeared to be the wish of the whole population of Upper Canada withont exposing themselves to the reproach of tyrannising over that section of the country in the management of its lozal affairs, and without incurring on that ground alone, the risk of a warfare being opened on those institutions for the sake of which they had been so frequently told, that they ought to stand by the rights of King's College?

During the recess Mr. Draper left the government and was replaced by Mr. Sherwood The solicitor generalship thus vacated was given to Mr. Hillyard Cameron. Under the Administration thus modified, withan Attorney General who had resigned on Mr. Draper's bill, and with a Solicitor General who, like Mr. Draper himself, had urged at the bar of the house the rights of Queen's College, a third University bill was brought in. It is true that the new measure differed greatly from those provionsly introduced, but like the two others it was opposed by the council of the University and the Bishop of Toronto, on the ground that it interfered with vested rights. Having been made late in the session, and the House being prorogued on account of the weakness of the government, who had carried their address by a:majority of two in the Lower House, and escaped a vote of want of confidence in the Upper House by the vote of the Speaker, this third attempt at legislation was again unsuccessful. A dissolution followed, and at the outset of the eventful session of 184849, a new administration was formed with MM. Lafontaine and Baldwin as leaders. Among the most promment public measures to be dealt with by this Administration the University bill was of course included; but it was not untıl after the riot and burning of the parliament building that the great question so often mooted, and as oftenalanduned, was finally settled. Owing partly to the comparative insignificance of all othei measuresduring the excitement created by the Rebellion Losses' bill, partly to the fact that the principle of interfering with the existing state of things had been admitted by all sides of the house, and perhaps more than anything else to the desire of sceing a final adjustment of a question which under its rarious shapes threatened to be an eternal obstacle in the way of every government and of every opposition; Mr. Baldwin's measure met with but a very faint resistance.
On the second reading of the bill a motion in amendment for delay to obtain certain returns, was supported
by the votes of the following members:-Messrs. Badgley, Boulton of Toronto, Chrysler, Macdonald of Kingston, Sir Allan MacNab, Papincan (Hon. L. J.), Robinson, Seymour, Sherwood of Brockville, Sherwood of Toronto, and Smith of Frontenac, in all 11 ; the nays were 50 . The motion that the bill be read that day six months had only two votes, those of Mr. Boulton of Toronto, and of Mr. Robinson. On the 13th of May 1849 the bill was passed-yeas 42 , mays 2.
By the 29th section of the Act it is provided " that no religious test or qualification whatever shall be required of or appointed for any person admitted or metriculated," \&c. "Nor shall religious observances according to the forms of any religious denominations be imposed upon the members or officers of the said University or any of them." The Act came into force on the first of January, 1850, and on the 9th of April of the same year, an address to Her Majesty was signed by the Bishop, clergy, and laity of the Church of England in Upper Canada, praying for the granting of a chartor for another University, to be entirely founded, supported, and conducted by and for the members of that Church. The British Society for the Propagation of the Gospel, undertook to pay $£ 1200$ annually for the support of the new institution; the Bishop left for England on the 10 th of April, and returned on the 4 th of November; a provisional Council was appointed, subscriptions to a large amount were raised, a contract for building to the amount of $£ 8000$ was entered into, the corner stone of an edifice to be called "Trinity College," was solemnly laid on the 30 th of April, 1851, and the building itself completed and inaugurated on the 15th of January, 1852; the institution was first incorporated by $\Delta c t$ of the Provincial Parliament, and subsequently obtained a Royal Charter. The energy and activity thus displayed by the venerable Bishop and his friends are undoubtedly $\begin{aligned} & \text { eyond all that could be imagined. }\end{aligned}$

Meanwhile the "University of Toronto" (which name was substituted for that of King's College, ) was conducted under the new Provincial Act of 1849 until April 1853, when another statute was enacted by Parliament, under the Hinchs-Morin government.

By this Act the Faculties of Law and Medicine were abolished, and the University was divided into two Institutions, one retaining the title of the "University of Toronto," and the other styled "University College, Toronto." The first of these institutions is a Board of Regents, formed on the model of the University of London, its functions being limited to prescribing subjects of examination for Degrees, Scholarships, Prizes, or Certificates of Honors, examining candidates therein, and conferring such Degrees or distinctions. It consists of a Board, called the University Senate, composed of a certain number of members appointed by the Crown, selected for their eminence in learning, or their known interest in education; such as the Hou. Adam Fergusson, M. I. C. ; the Hon. J. C. Morrison, the Hon. David Christie, M. L. C.; John Langton, M. A., of Trinity College, Cambridge; Sir William Logau, F. R. S., \&ic. Next there are the ex-officio members, including the Chief Superintendent of Schools for Upper Cauada, the Presidents
or Heads of University Collego, Toronto; Queen's College, Kingston; Victoria College, Cobourg; Trinity College, Toronto; Regiopolis College, Kingston ; Knox's College, Toronto; Bytown College; the Medical Board of Upper Canada; the Toronto School of Medicine; the Treasurer of the Law Society, \&c. Finully, by special commission, His Excollency has more recently added three of the Professors of University College, and a certain number of the senior graduates of the University.
In addition to prescribing the courses of study for degrees, appointing the annual Board of Examiners, and conferring degrecs and othor honors; the appointment to College chairs, masterships, \&uc., is made with the advice of the Senate, and the control of the Grammar School of Upper Canada College is eutrusted to a committee appointed by it anmully from among its own number.

University College coustitutes a distinct Corporation, of which the president and professors are tho governing body, under the name of the College Council. On this body the teaching departments of the University devolve; and by the Act it is provided that there shall be taught in the College such sciences, arts, and branches of knowledge as the Council may, from time to time, determine, and as may be in accordance with the statutes of the University, respecting the prescribed subjects of examination.
(To be continued in our next.)
Pierre J. O. Chauveav.

## School days of Eminent Men in Great-Britain.

Br Jона Tsubs, F. S. A.
(Continued from our last.)
XCVI.
boyhood and education of oliver cromwell.
Cromwell, the son of Robert Cromwell, and his wife Elizabeth, was born at Huntingdon, in 1859. It is iraditionally related that when an infant, his life was endangered by a great monkey at his grandfather's house taking him out of the cradle, and carrying him upon the leads of the house, to the dreadful alarm of the family, (who made beds and blankets ready, in the forlorn hope of catching him,) but at last brought him safely down. It is better established, that Oliver was saved from drowning in his youth by Mr. Johnson, the curate of Cunnington.
Cromwell was educated at the Free Grammar-school of Huntingdon, by Dr. Beard, whose severity towards him is said to have been more than what was usual even in that age of barbarous school discipline. He was a resolute, active boy, fond of engaging in hazardous exploits, and more capable of hard study than inclined to it. His ambition was of a different kind, which discovered itself even in his youth. He is said to have displayed a more than common emotion in playing the part of Tactus, who finds a royal robe and a crown, in the old comedy of Lingua, performed at the Free-school of Huntingdon. He is said often, in the height of his fortune, to have mentioned a sigantic figure which, when he was a boy, opened the curtains of his bed, and tnld him he should be the sreatest person in the hingdom. It is also related that Cromwell, (being at his uncle's house at Hinchinbrook, when the royal family rested there on their way from Scotland, in 1604, was brought to play with Prince Charles, then Duke of York, quarrelled with him, beat him, and made his nose bleed profusely, -which was remembered as a bad omen for the King when Cromwell began to distinguish himself in the Civil Wars.

Before Oliver had completed his seventeunth year, ho was removed from the school at Huntingdon to Sydney Sussux College, Cambridge. Though his passion for athletic exorcises still contimed, 80 much so that he is sad to have acquired tho name of a roystorer in the university, it appears certain that he did not mispend his timo there, but liat he made a respectable proficiency in fis studies. Within a year of this, his father died, and his mother, to whose care ho appears to lave been loft, removed him from colloge. It has beon affirmed that lio was placed at Jincoln's Inn, but that insteal of attending to the latw, he wasted his time "in a dissolute course of lite, and good iellowship and gaming " But Cromwell's name is not to bo found in the registers of Lincoln's Inn, though his son Richard's is. It is, howover, probable that Oliver was entered at some other of the inns of court. Returning thence to reside upon his paternal property, he is said to have led a low and boisterous life. However this may have been, he offended at this time by his irregularities both his paternal uncle and his maternal one. But, whatever may have been the follies and vices of Cromwell's youth, it is equally certain that he had strength and resolution enough to shake them off.

In after lifo Cromwell was not insensible to literary merit. Archbishop Usher received a pension from hım; Andrew Marvell and Milton were in his service; and the latter always affirmed of him, that he was not so illiternte as was commonly supposed. He gave 1001 yearly to the Professor of Divinity at Oxford; and it is said that he intended to have erected at Durham a college for the northern counties of England.

## XCVII.

## charles the second-his patronage of letters.

Of the childhood and education of Charles Il. we find scanty recond. He was the eldest son of Charles I. and Henrretta Maria of France, and was born at St. James's in 1630. He was chiefly brought up by his mother until he was twelve years of age. In his ninth year he was created Prince of Wales: when the Civil War broke out, he accompanied his father to the battle of Edgehth; and in 1645, he served with the royal troops in the west with the title of general. Next year, on the ruin of the royal cause, he joined the Qucen, his mother, at Paris, and he afterwards took up his residence at the Hague. This must havo been almost the earliest opportunity that the Prince could have had for study, which must have been of a practical turn. Evelyn describes Charles as "a lover of the sea, and skilful in sh:pping ; not affecting other studies; yet he had a laboratory, and knew of many ompirical medicines, and the easier mechanical mathematics; lie loved planting and building, and brought in a politer way of living, which passed to luxury, and intolerable expense." But this is the language of a courtier.

Charles's love of the sea led him early in his reign to eutertain the suggestions of certain governors of Christ's Hospital for the institution and endowment of the Royal Mathematical School. With Sir Robert Clayton, it is believed, origmated this school; and his project being backed by Sir Jonas Moore, then SurveyorGeneral of the Ordnance, and by Sir Christopher Wren and Samuel Pepys; and having in its favour the mediation of the Duke of York, then Lord High Admiral of England,-a royal charter was granted, and the school was opened tor 40 boys, under the auspices of the King, in the year 1673 . Beyond the grant of the charter, however, little was done by Charles towards the maintenance of his new foundation. His endowment dud not extend beyond an ammity of 1000 l ., terminating at the expiration of seven years. The King reserved as many of the boys as might be required for his own services; and a grant was obtamed from the Government by Pepys to be given as premiums to mer-chant-masters for taking the other boys. The revenue was also increused by a gift, which it was thought the King would not approve of, but, on being consulted, he replied, that "so far was he from disliking, that he would be glad to see any gentleman graft upon his stock." The school flourished: for several years Pepys constantly attended the examination of the boys; and Sir Jonas Moore, one of the first practical mathematicians of the day; commenced for the master's use a system of mathematics, which was completed by Halley and Flamsteed.
Another service which Charles rendered to the higher class of studies was his incorporation of the Royal Society, by royal chartor, in 1663, when the King signed himself in the charterbook as the founder; and his brother, the Duke of York, signed as Fellow. Charles also presented the Society with a mace.
Another advantage conferred on science in this reign was Charles's foundation, in 1676, of the Royal Observatory at Green-
wich, for tho benefit of astronomy and navigation; and the appointment of Flamsteed as the first Astronomer Royal.
After the Ilestoration, the lirst steam-engine is commonly believed to have been constructed by the Marquis of Worcester, which he, in his Century of Inventions, vescribes as "an admirable and most forcible way to drivo up wator by fire." Ho used a cannon for his boiler: and he describes the water as rumning " like a constant foumtain-stream, 40 feet hight one vessel of water rarified by fire, driveth up 40 of cold water." 'This enginn was seen at work in 1663, at Vaushall, by Sorbiere, who foretold that the invention would be of greater use than the machiine above Somerset House, to supply London with water.

## XCVIII.

## BOYHOOD OF JAMES II.

The oarly life of this prince was clouded by the polncal troubles of the time, wh ch, as they greatly tended to his personal discomfiture, must have materially interi, red with his instruction. Janes was the second surviving son of Cadiles I., by his queen Heuriella Maria, and was born at St. James's in 1633. He was immedrately declared Duke of York, but not formally created to that dignity thll 1643. After the surrender of Oxford to Farfaix, in 1646, the duke, with his younger brother, Henry, afterwards created Duke of Gloucester, and his sister Elizabeth, was committed by tho Parnament to the care of the Earl of Northumberlaud, and ho continued in the custody of that nobleman till the 21 st of April, 1648, when he made his escape from St. James's Palace, disguised in female attire, and took refuge with his sister Mary, Princess of Orange. Here he joined a part of the English fleet, which had revolted from the Parliament, and was then lying at Helvoctsluys; but although at first received on board as an admira!, he soon after resigned that post to his brother, the Prince of Wales, on the arrival of the latter from Pais, and returned to the Hague. When Charles, now styled King by his adherents, came to Jersoy, in September, 1649, he was accompanied by the duke, who remained with hum during his stay of three or four months. He then returned to the Continent, and resided some time with his mother at Paris.

A singular circumstance now occured, which well bespeaks the character of James. Shortly before his meeting with Clarendon, it had been reported that Charles was dead; upon which the duke, looking upon limself as already King, made several joumeys to take counsel with his friends; and, upen the falsehood of the imelligence respecting Charles being discovered, James was so chuldish that he was rather delighted with the journoys he had made, than sensible that he had not entered upon them with reason enough; observing that " they had fortified him with a firm resolution never to aiknovoledge that he had committed any error." In the end he was oblied to return to his mother at Paris, where he chiefly resided until he had attained his twentieth year. He served with reputation in both the French and Spanish armies; but his great aptitude was for sea affairs, and after his return to England in 1660, he for some time acted as Lord High Ailmiral. His exertuons, assisted by the indefatigable Pepys, the Secretary of the Navy; raised the fleet which afterwards won the battle of La Hogue; as his camp at Honnslow was the nursery for the victorious ammy of Marlborough James employed part of the lessure of his retirement in writing an accoumt of his own hife, the orignal manuscrint of which extends to nine folio volumes. The manuscript was burnt by the person to whom it had been confided; but a digest of the royal autobrography had been long before drawn up by an unknown hand, apparently under the direction either of James or his son; and this digest being preserved among the papers belonging to the Stuart family, which were obtained by George 1V., when Regent, has been printed.

## XCIX.

## RISE OF FREE-SCHOOLS, OR CHARITY-SCHOOLS.

We have already shown that the endowed grammar-schools were the natural successors of the schools and charities of the Church before the Reformation. They contemplated none but the inost liberal education. Children were to be brought up as scholars, or to be taught nothing. The grammar-schools were the nurseries of the learned professions, and they opened the way for the highest honours of ihose profersions to the humblest in the land.

About the time of the Revolution, the commercial classes, who had grown into wealth and consequent importance, began naturally to think that schools in which nothing was taught but Latin
and Greak were not altogether fitted tor those who were destined to a mercantile life. Unaducated men who had pushed their way to fortune and honour generously resolved to do something for their own class; and thus we come to see in every town not a free grammar-school, but a froe-school, ovor whose gates was generally sot up the effigy of a boy in blue or green, with an mscription betokening that by the last will of Aldorman A. B. this school thad beon founded for 20 poor boys, to be clothed, and taught reading, writing, and arithmetic.

Wilh a comparatively small population, these free-schools were admirable beginnings of the education of the poorer clasees. White the grammar-schools were making divines, lawyers, and physicians, out of the sons of the professional classes and the wealthier tradesmen, the free-schools wero making clever handicrafismen and thriving burgesses out of the sons of tho mechancs and labourers; and many a man who had been a charity boy in his native town, whon he had risen to competence, pornted with honour and pride to the institution which had made hum what he was, and he often loosened his pursetrings to perpetuate for others the benefits which he had himself enjoyed.

Thus we see that what the grammar-schools had done for the higher and middle classes, the free-schools did for the lower, in a different measuro. They were the prizes for the poor boy, who had no ambition, perhaps no talent, for the struggles of the scholar; they taught him what, amcagst the wholly untaught, would give him a distinction and a preference in his humble career,and he sas unenvied by the less fortumate, because they knew that there was no absolute bar to their children and therr kindred running the same course.

In a few cases, we owe public-schools to some providential deliverance of the founders; as in the instance of Dame Alice Owen, who, in 1613, founded and endowed in St. John-street-road, London, a school for 30 poor scholars, in memory of her having escaped " braining" by a stray arrow upon the site, then called Hermitage Fields ; the arrow having passed through Dame Owen's high-crowned hat.

The originator of this charity-school movement is by some stated to have been William Blake, a voollen-draper, "at the sign of the Golden Boy," Maiden-lane, Covent-garden, who founded the Hospital at Highgate, (1) called the Ladies' Charity School, before 1685, and who purchased Doichester House for that purpose, exponding 5000 l . in his benevolent project. Blake had for his coadjutor Alderman Cornish, who, in 1685, was tried and executed as having been concerned in the Rye-house plot. It is generally stated that Charity Schools were first erected in the parish of Aldgate, and St. Margaret, Westminster; and a slab in front of the Aldgate school house, adjoining the Royll Mint, bears an inscripuon to the purport that it was the first Irotestant Charity School, and was erected by voluntary contributions in 1693.

Westminster has, to this day, four of these schools, distinguished by the colour of the clothes worn by the scholars. First is St. Margaret's Huspital, established and endowed in 1633 ; the master's house bears a bust of Charles I. and the royal arms, richly carved, coloured and gilt; adjoining the school-house is a quaint old flower-garden; the boys wear a long green skift, and a red leather girdle; hence St. Margaret's is known as the Gireen Coat Hospital; the grace used here, attributed to Bishop Compton, is the samo as that said in Christ's Hospital. Then there is the Westminster Blue Coat School, instituted 1688; and next Grey Coat Hospital, founded in 1698, and reconstructed in 1706, when the school-house was built: the centre bears the royel arms of Queen Anne, with the molto Scmper Eadem, flanked by a male and female figure in the olden costume of the children-dark grey dresses, the girl's bodice open in front, and corded. In 1686 , Sarah, Duchess of Somerset, bequeathed 100l. 10 support six fatherless boys in the 6 chool, to be distinguished by wearing yelloz caps. The fourth and last 18 Palmer's School, the boys of wheh wear black conts.

A school was commenced about this period at Kensington, by a bequest in 1645, to establish "a free school for noor men's clolduren to be taught reading and arithmetic; '" which was extended to
(1) Thero was already at Highgate a Grammar School, founded by Sir Roger Chomeley in the reign of Elizabeth; the first statute ordering that the schoolmaster should "teach young children their ABC, and other English books, and to, write, and also in heir grammar as they should grow up thereto;" but the foundation dwindling to $n$ mere charity school, by the aeglect of the governors, the school was restored and is now in active operation as a Grammar-school under a scheme of the Oourt of Chancery. The income is about 777l., and the Scheol is free to 40 boys, nominsted by Gorernors from tho neighbourhood.
clothing and instructing boys and girls "in all needfull learning and work, and the prinoiples of the Church, and to dispose tham to useful trades." Queen Anno and Prince George of Denmark contributed to the fund, and in 1713 a nerr school-house was built, vest of Kennir.gton Church, by Sir John Vanburgh: thes is a firte specimen of brick work; in the front are costumed statuettes of a charity boy with a pon and scroll, inscribed, "I was naked and ye clothed me;" and a charity girl presenting a prayer-book; in the oid school-room is a vellum list of subseribers to the school from 1701 to 1750.

Among the oldest Chatity Schools in the metropolis are those of St. Clement Danes, Strand, established in 1700, on the principles then first propagated by the Society for Promoting Christian Knowledge. The School-house is in the neighbourhood of Clare Market, formorly Clement's Inn Fields, where theatres and taverns, and other low haunts of dissipation, held out their taits, and for neglect of Christian education lured many a sonl to early ruin.
Another of these early institutions is the Ladies' Charity School, which was established in 1702, at Kingr-street, Snow-hill, London, and was there kept 145 years, when it was removed to Joln-street, Bedford-row. Mrs. Thrale and Dr. Johnson were subscribers to this school ; and Johnson drew from it his story of Betty Broom, in the Jdler. In the school minutes, 1763, the ladies of the committee censure the schoolmistress for listening to the story of the Cocklane Ghost, and desire her to "keep her beliof in the article to herself." The 150th anniversary of this School was celebrated with a public dinner at Stationers' Hall, in 1852.

## (To be continued.)

## Suggestive Rifistowaras maproved Secular Instruction.

gy the Rev. Richard Dawes, A. M.

## XI.

Natural Philosohiy.
(Continued from our last.)
Air as a velicle of sound.
A bell under the receiver of an air-pump when exhausted, is not heard.
Bodies which produce the sensation of sound on the ear are in a state of vibration, as in a bell-the running a wet finger along the rim of a common drinking-glass, etc.

Here having to do with the instruction of children engaged in country occupations, I have called their altention in this, as in other subjects, to things coming under their observation, in a way something like the following :

Did you ever observe a woodman cutting down a tree at a distance ; you could see the hatchet fall, and sume time after that the sound of the blow came to your ear. Do you know the reason?

Teacler. Light travels 80 fast that the tume it is in coming from the hatchet to you is 80 small that it cannot be rechoned; so that when you see the hatchet fall, that is the instant the blors is given; but sound, coming at a very slow pace ( 1,142 feet in a second), takes as many seconds to get to your ear as when muluplied by 1,142, would give the number of feet between you and the man cutting down the tree.

For instance, if it were 2 ", his distance would be $1142 \mathrm{ft} . \times 2$, If $3^{3 \prime}, 1142 \times 3$, and 80 on.
Did you ever see a man firing a gun at a distance, and, after seeing the flash, wonder why you did not hear the cound, or that you were kept considering how long it rould be bofore the sound came? Do you know the reason-can you explain it? Because sound lags behind, and the flash takes up no time in coming to the eye.

Supposing you were $5^{\prime \prime}$ before you heard the sound after sceing the flash, how far would you be off $3-5 \times 1142 ; 6$ ", how far?-6 $\times 1142$, and 50 on .
When we hear the Portsmouth guns here, if you could have seen the flash, do you think you could find out the distance betwist this and Portsmouth?
Supposing a man was standing where you could see him a mile off, and you saw the fiash of his gun, how long would it be before you heard the sound? A mile in feet divided by 1,142 would give the number of seconds hefore I could hear the sound.

Teacher. How do you thitik the sound gets to your ear? The air in the gunpowder suddenly expands and disturbs the air immediately about it, or the hatchet causes a vibration or tremu-
lous motion in the wood, which $6 r^{\prime} 3$ tho air in motion all round about; and this makes a sort of circular wave, beginning from a point which gradually enlarges, one curcle of the air of the atmosphere striking against another, untul it reaches the ear, unless it meots with somo hinderance in the way; just as when you throw a stone into a smooth pond, a wavo, beginning from the stone, spreads in every direction, until it reaches the bank. The air is as necessary to continue the sound up to your ear as the wator is to mako the wave como up to the bank:
Sound goes much quicker in water-nearly four times as quick as in air, and in solide from ten to troenty times quicker ; so that if you splash in the water at one ond of a pond, the fish would hear you much sooner than a boy standing at the opposite side vould do.
Now, in order that you may understand how well solids convey sounds, the next tume you see a solid log of deal, or limber not very knotty and broken in the grain, at the carnenter's shop, set one of the boys to scratch at one end of at, and the rest of you go and listen at the othor. Try the same on a block of stone, marble, otc.
But perhans this will amuse you more: when you see the kotllo on the fire, and you cannot tell whether it boils or not, place one end of the poker on the lid, the other to your car, and it will tell you. If yous strike with a hammer on a solid wall at one end, and some of you go and fix your ears agamst tho other, you will most likely hear the sound of the blow twice-the first going along the wall you may call the wall-wave (coming more quichery), the second, a little after, through the air, coming with the air-wave, we have talked of before. Try if you can hear two reports of the same knock by tapping with a hammer at the ond of a log of wood -one along the wood, the other along the air
You have heard of the wild natives of America-when they think their enemies are near, they lis down on the ground, and, by applying their ears to it, they can judge of the distance, and hear sooner than through the air.
Did you ever hear what is called an echo?
Supposing you were to clap your hauds violently together, that creates a vave in the air which carries the sound along with it; now, if this wave happens to meet with a wall or a rock, or any obstacle in its way, it is checked and beaten back, and so brings the sound with it a second time to your ear ; and again, after passing you, if it met with the same sort of obstacle on the other side, it would be sent back again, and so strike your ear in passing and repassing, losing a little every time until it entirely died away. This would be called an echo ; people living in a flat country have not so many opportunities of observing it as those who inhabit a craggy and mountanous one.
Water-a fluid at the common temporature of the atmospherc. Have you ever seen it solid? In winter-in frost-it is then ice. -How high does the thermometer stand when water begins to freeze? 320.-Look at the thermometer in the room, how high is it? 520.-How many degrees above the freezing point?-Does it increase in volume when it becomes ice? Water from the temperature of about 290, expands as it grows colder, and at 320, when it becomes ice, oxpands 80 as to crack water-bottles, waterpipes; a piece of ice floats in water, part of it being above the surface; if it were of equal weight with the same volume of water, it would just sink so as to have no part above.- You should never let water stand in leaden pipes, or in vessels likoly to be broken by its freezing in severe frosts. This expansion of water in becoming ice, how serviceable to the farmer, in some soils, in pulverizing and making them fit for vegetation-good for gardens, etc.
"That water contracts in reducing the temperature to about 400 , and below that again expands, is easily shown, by taking two equal thermometers, the one filled with water and the other with spirit; placing them in melting ice, the spirit one will gradually fall to the freezing point, but the other sill fall to about 400, and then begin to rise. By Act of Parliament, the iemperature at which the epecific gravity of spirits is determined by the excise, and at which the standard weights and measures are adjusted, is 620 of Fahrenheit."-Daniel's Chemical Philosophy.
Quicksilver, unlike water in this respect, contracts and becomes denser in becoming solid. It has been ascertained, by leaving it exposed to the cold in high latitudos, where it has assumed a solid form, and observing the temperature at which it begins to thaw, that the freezing point is about 400 below zero of Fahrenheit.
Attention may be called to the way in which the roads are raissd up in winter by the freezing of the moisture within them-how atter a thaw a loaded cart or waggon siaks in, causing deep ruls -how rocks and stone, which have absorbed much moisture, split after frost-parts of buildinge peel off, etc.
Can water be made into a vapour-something you cannot see?

By heat it becomes steam, thermometor 2120 at the average prossure of the almosphere ; one inch of water makes about a cubic foot, 1728 melies, if further heated it exerts a greater prossure in trying to escapo, pressing on the surface of the vessel in which it is. This is the property which makes it so servicenble to us in grinding our corn, moving the machinery for spinning and weaving, of steam-boats, etc., and as a moti-e porver onjour railroads, carrying us forty or fifty miles in an hour. If cooled below 2120 it iminediatuly falls back, shrinks up nuto one inch, and becomes visible water agam, giving out a great deal of heat;-instanco steam raisug the ketilo-hul.

Why does the tea kette, just before boiling, very often force out a quantity of water from tho spout? Because the air, driven from the water by heat, and the steam which is forming from the water, rise to the top, and the lid happenning to bo air-tight, it cannot escape, and being lighter than water it cannot descend, so the vapour or steam under the lid increases and expands, and, pressing upon the surface of the water, forces it out at the pipe.-Did you ever see on a frosty day, when you were going with a team, what you call the breath of the horses, or your own breath ?-Yes, Sir.

Teacker. The warm air from the horses' mouths, or from your own mouth, containing vapour which you cannot see when the air has a certain degree of warmth in it, as soon as it comes in contact with the colder air gets cooled, and the steam or vapour becomes water (is what they call condensed), or perhaps watory vapour, which you can see, instead of a vapour which you could not see.

Did you over see sugar or salt melted in water? No, Sir ; but we have seen sugar in tea.-Then the teacher takes a small phial containing water, end puts in a certain quantity of salt, when entirely melted they sce the fluid perfectly clear; increase the quantity beyond what the water will take up, this remains undissolved. If the temperature of the vater were increased, it would take up more; in the samo way the air will take up a greater quantity of vapour the warmer it is, and coming from the mouth warm, it holds more vapour than it is able to do, when it comes in contact with the cold air, and throws some of it down, so thict you can see it; thus water on the inside of the window in frosty weather -dew on the outer sutface of a botle of cold water in hot weather, etc.- the quantity of watery vapour in the air in hot climates greator than in cold, hence torrents of rain when it is suddenly cooled, etc.

About Loudon, latitude 510 30', the average fall of rain th the year is about 23 inches; while in Rome, latitude 41054 ', it is 38 inches; at Calcutta, latitude $22034^{\prime}$, it is 81 inches; and in climates like the West Indies upwards of 100 inches; but though tho quantity of rain falling in hot countries is greater than in the temperate ones, the number of wet days is greater in the latter than in the former ; there is more molsture in the air in our climate in summer than in winter; but from the greater temperature it is held up, and is not so sensible to us. By inches of rain is meant the depth at which it would stand on every square inch of surface on which it falls, supposing none to be absorbed by the soil or to evaporate.

Two fuids in the same vessel, one lighter than the other, which would get to the bottom? The heavier one.-Give instances. Mulk and cream, water and oil, quicksilvor and water, water and air.
The teacher, holding up a glass; What is this glass full of? Atmospheric air.-If I pour in water, what does that do ? Drives out the air, because it is the heavier flud ?-If I pour quicksilver into a glass of water, what would take place? The quicksilver would drive out the water for the same reason.- If water upen mercury, or oil upon water? The water or oil being the lighter fluids, would rest on the top, and the same thing would take place if carbonic acid or any gas heavjer than air were poured in.Another instance : fill a small phial with water, leaving room for a bubble of air, then cork it; holding it in a horizontal position the bubble rests in the middle, elevate one end, the bubble rises to the top; show how this may be used as a spirit-level.

Look at that cubical vessel on the table, divided into two equal parts by a division in the middle. Suppose one division full of mercury, the other of water, and the partition suddenly wuthdrawn, what happens? The mercury immediately covers the bottom of both parts, and the water nses to the top.
Take a bottle of water from a cool spring or from the pump; place it in the sun or in a room-for instance, as you see it sometimes in a bedroom. You will obsorve air-bubbles form themselves on the surface of the glass-at the bottom and the sides-this is air contained in the these air-bubbles form themselres, expand as they rise, come suddenly to the top, the water being of equal temperature through-
ont. Why doos the bubble expand as at rises? The pressure upon its surface varies as the depth; and therefore the nearer the surface the loss the pressure.
How is it then, if you place water in an open saucopan on the fire to heat, we see at first bubbles form themselves at tho bottom, like pieces of glass, rise up a little way, a.d are then lost before coming to the surface.
The air in that part of the vater in contact with the bottom of the sattecpan, immediately it begins to feel additional warmilh, forms a bubble, rises up a litte way, and although tho pressure is diminished, it becomes again compressed, in consequance of coming in contact with cooler water as it rises. This it is, I Lelieve, which causos what is called the hissing of the kettle.
If you were to boil a quart of water until it has all, as you call it, boiled away, what has become of it ?-All turned into steam.-If water with chalk or salt in it?-The water would go into vapour, and the chalk or salt be left behind at the bottom of the kette.
Did you ever see a white crust at the botom of your tea-kettle? Yes, Sir ; but we don't know what it is? -Don't you know we live upon what is called a chalk soil here, and the ram that falls makes its way through the chalk and comes out underneath it, havng taken up some of the chalk in its way through. If our hills had been of iron ore, lead, or salt, the water would have taken up some of these substances in passing through them, as it always takes up some of the earth through which it filters-as it is a flud in which many things are soluble; thus, we get water with chalk in itwhen you boil it, the pure water goes off in vapour, and leaves the chalk behind, which falls to the bottom of the kettle: besides thes, although hot water will hold up or melt more sugar or salt than cold, yet it will not hold more chalk, on the contrary, less, as the heating drives off a par' £ular gas or air (called carbonic acid gas), which has a great liking for the chalk, and holds it up in the water, so that what falls to the bottom partly belongs to the water which is driven off, and partly to that which is left in the kettle. These are two reasons, therefore, why your kettle has a white mass of chalk at the bottom.
Taking of the lid of a kettle when the water is boiling, turning it up, what do youl observe ? Drops of water. These are formed by the steam coming against the lid, cooling it down so that it becomes water-the lid being in contact with the atmosphere conducts of the heat from the steam-this is distilled ater or pure water, containing no lime, salt, etc.

Two fluids mixed together, which become vapours at different temperatures, may be easily separated-thus a mixture of spint and water; heat the mixture up to the temperature at which spirit becomes vapour, it goes off and may be collected, the water remaining behind.
That the bolling point of water or any other fluid varies with the atmospheric pressure-how this may be applied to find the altatude of mountains-that water at the top of Mont Blanc, for instance, boils at a temperature of about 1870-that a difference of 10 in the boiling-point corresponds to about 530 feet of ascent, and this difference in bolling will denote a fall of about 0.589 inch of barometric pressure-ihat, under the receiver of an arr-pump, water may be made to boil at a very much lower temperature than in the arr. This and other things of a similar kind I find, from experience, may be made most instructive and useful to them, and more particularly if a school is provided with philosophical apparartus with which the experiments can be shown. A table of the temperatores at which different fluids boil and freeze, should be suspended on the wall.
Heat water to bohing in a Florence flask, cork it well when boiling, and turn the flask upside down, having removed it from the lamp it now ceases to boil; sprinkle water on the surface of the bottle, the steam within ic condensed, and it again begms to bont; when it again ceases to bot, from the elastictity of the steam within, repeat the eprinkling and it commences boiling agan. Thus the application of cold makes the water boil.

Archideacon Wollaston invented an apparatus of such delicacy for ascertainir, this, that the difference of the height of a common table from the ground would produce a difference in the boilingpoint, which was clearly shown by the instrument.
The different ways in which water and metals are heated-hot current ascending, the cold water descending, and metals from particle to particle; point out also the difference in the process, in attempting to heat water by placing the fire above and not under the vessel contaning it. The conducting power of fluds is very small, and it has been found that water may be made to bonl in the upper part of a tube, without imparting much heat to the water below it, and that it may be brought to the boiling-point within one fourth of an inch of ice without the latter immediately melting ; and that ice is
melted eighty times slower when it is fixed at the bottom of a cylinilrical vassel with water above it, than when it floats upon tho surface of warm water.
Salt is got from sea water by oxposing it to the air iv large pans; the water goes off in vapour and leaves the salt behind: the greator the surface exposed to the air the more rapidly the water goes off. Shallow pans bettor than deep, and why: Do you not observe the water lessen very much in summer in your sheep-ponds, even when you do not take cattle to drink at them? It is taken up by the air; in the same way a good brisk whed rapidly dries the hay, corn, and clothes after washing; and if you want anything that has been washed to dry fast, you unfuld it as much as jou can in order to expose all its surface to the ait. For the same reason you spread out the grass and leave the corn in the field, in order that the fluid matter contained in them may be taken off.
Salt also is found as a mineral in Cheshre, Poland, etc.; and salt-springs are very often found in the coal-mines in some districts, particularly in Durham and Nowcastle, where a great part of the salt used by the miners for their own domestic purposes is supplied by the salt springs in the mines.
The following is an casy instructive experıment : Take a small quantity of rock-salt and also of saltpetre, the crystals of which differ very much, dissolve them together in water, they form a clear limpid flud. Pour this solution of the two into a small dish and let it evapurate, crystals of pure salt and saltpetre will be the result, the beautiful long crystals of salpetre being totally devoid of salt. This shews clearly that the atoms of salt have in attraction for, and seek for, their own atoms-the same of the saltpetre, and that if there is any attraction of the one for the other, it is less than that among themselves.

## (Tb be continued.)

## The Man that hmows how to Read and to Write. (1)

## (Translated from the French of Mr. Emile Souvestre.)

When the chaldren of men wanderers on the face of the earth, had to seek for their flocks the richest pasture lands, one of the sons of Japhet wearied, had fallen in the midst of the vast solitude and near his bleating sheep into a gentle slumber.

But a dream came over him, and the tollowing vison passed before his eyes:
He imagined that he was borne aloft 10 a high mountain, from whence he could see extending in the distance the white tents of his own tribe, and the friendly habitations of many kmdly clans. Beholding them his heart leaped with joy, and stretching forth his arms he raised his voice and called on his parents and his kinsmen ; but the distance was great, neither could he be heard, nor could the welcome tones of their voices reach him. In vain he prays the passing clouds to take him up in their folds and carry him to his brethern, in vain he asks the birds of the air to lend him their wings, in vain he solicits the wind to carry his message; the clouds throw their shadows over him, the birds sing a mournful note, and the wind sighing passes on, unheeded is has request, and a gloom spreads over hiss countenance.

The eyes of the shepherd fill with tears; he cries aloud to the God of his fathers:
-Almighty being! free me from space and from time $!$ so dispose that in my solitude, I may be enabled to speak to other men and make known to them my thoughts and they make known to me theirs !
Then an angel descended frem heaven, placed into his hands a tablet, and said: "Learn first to recognise these characters, then to imitate them, and your wish shall be fulfilled."
It was the Alphabet that God was giving to the human race, and with it, the arts which are most useful lor its progress and most conducive to th happiness, the art of reading and the art of writing.
With these, what is solitude, what is distance?
The man who knows how to read converses with the absent; he becomes the confident of therr joys and of therr sorrows, he hears their assurances of esteem and of affection, and the soft breathing of their sympathies melts his heart: he is acquainted with what they do, with what they think, with what they desure, and with what they suffer. The scrip, which he receives covered wath the
(1) For the original, sce our Journal de 'Instruction Publique, for February lasi.
signs thoy hat traced, similar to the talisman of eastern tale, brings before him, the familiar faces of the absent, with whom he may converse, laugh or shod a tear; shows them to him in the midst of ondearing associntions, transports him to tho home of his youth and to the bosom of his family. Without the power of reading the absent would be like to the dead; indeod they would hee in the memory, but we should no longer know where they are, how they are occupied, we cuald have no certainty that they still hold us dear and at times think of us and treasure our remembrance. Tako away those writton conversations, which enkindle such gentlo feolings and knit in close bonds the ties of friondship, then distance will soon sever the links of the most sacred connections.
The man that knows how to read, holds commumiation not only with his friends but with the whole universe! The earth extends for him far beyond the horzzon; he particepates in the unversal life; to him no man is a stranger, for he has passed through every country; to him there are no unknown lands, for he has seen the world in books as in a mirror.
The man who knows how to read converses aven with the dead. Bending over the writings to which they have contided ther thoughts, they speak to him eloquently from the mute page, their theughts leap into his soul. His teachers, the companons of his solitude, the friends of his lonely hours, are those great gemuses scattered in the path of time as are scattered the stars in the path of our planet. He profits by their experience, to their reflections, he adds his owa reflections; he becomes the universal mheritor to that heir-foom of wisdom amassed during the course of ages.
The man that knows how to read may learn every thing. Instruction arrives directly to him wathout the intermediary of a master; bouks are to him ever open schools, whose portals $n 0$ power can close.

The man that knows how to read is never lonesome; he has at his command every thing that can awaken his curiosity, interest lus mind, or excite his imagination. Does he wish to travel to distant shores, or to hear an aceount of the disasters or triumphs of his countiy, or to listen to the inspired verse of the poet, or to assist at the wonderful discoveries made by men of science, or to follow the romantic adventures of imaginary heroes, reading, an ever obliging fairy, transports him whither he wills. Sovereign ali powerful, the greetest intelligences are his courtiers, the obsequious slaves to his pleasure, ready to speak, or to remain silent as he may fancy.
In fine the man that knows how to read seems to multiply his facultes and to dignify his nature. There are a thousand offices which may be confided to him, and to him alone. He possesses one sense more them the ignorant ; in reality he belongs to a higher order of beings.
But reading is only the half of the indispensable science; it prepares man for the fulfilment of his social duties, writing perfects lim in it. The man that cannot writo reads the thoughts of others, but his own can never travel miles, and even dies before they find an echo; he histens, but he cannot reply; he hears, but ho canuot speak; his conversation with the absent is an eternal monologue, of which he is the only auditor; he cannot commune with a distant friend, nor ask him a simple question, nortell him a simple want.
The man that knows not how to write mistrusts his memory: he has no invariable mark whereby to fix an uctual event; time obliterates all recollection of the past, with the dates, the names, and the circumstances, for he has not had the power to connect them with precise signs. His brain ressembles the slate on which we write a phrase or a cipher, which must be effaced for the work of the morrow.
The man that knows not how to write cannot explain to an absent acquaintance an affair on which may depend his fortune or his happiness. He is oppressed, but cannot apprise those that govern him of has wrongs. Obliged to borrow the aid of another man's hand he seems doomed to a kind of eternal infancy; he is a minor whose acts are of no avail without the consent of the tutor.
The man that knows not how to write, is ignorant of the art of putting his thoughts into order, and of expressing them with conciseness. Accustomed to the diffuseness of extempore discourse, he has never been able 10 construct his sentences, to discuss his expressions, to arrange his arguments, to study in fine that science of language which teaches us how to express cur thoughts in the best form, and in the fewest words.
But the man that knows how to read and to write is like the fledgeling; he feels his newly acquired powers; winging his flight he may travel through space and penetrate into eternity! He has oblained over space and over time the victory which the shopherd prayed for in his dream.

Now all deponds upon tho uso that ho will make of thoso powerful instruments ! The treo of hite, and the treo of death, drow their nourshment from the same soil, and spread their branches in the same garden! The man who knows how to read and to write may fall, but at least it alall not bo without knowing it: his faults will be the results not of ignorance but of choice, and he shall be holid legitimatoly rosponsible betore men as ho is before God.
H. G. M.

## Thoughty for Tenchers.

Apphcants for certificates of qualifications to teach common schools occastonally complain, those rejected especially, that the examinations are too severe, and the requirements demanded of candidates unnecessarily difficult and numerous; while our best teachers rncommend the elevation of the standard of qualifications still higher, and thus exclude unqualified teachers from our school houses. Our most successful teachers are desirous to have candidates subjected, each year, to more rigorous and complete examinations, whereby their profession may be more respected, and their remuneration thereby increased. Especially is it the manifest merest of the public, that there be a diminished number of certineates assued by Boards of Examiners; for the opposite courso necessarily mcreases the multitude of teachers, causing greater competition for stuations to teach, and thereby reducing their wellearned wages, and by madequate compensation, discouraging and driving competent teachers into other more lucrative employments, who thus abandon our school houses to be afterward occupied by fourthrate teachers, and those utterly unqualified by nature and education, and wholly unfit to have charge of our youth.
There are many persons who have tanght school, term after term and year after year, merely as a matter of pecuniary convenience, without increasing one iota their original stock of knowledge. We find teachers who think themselves insulted if advised to study after they have made their debut as instructors. They forget that there is in society a constant progress; that those who are competent to mstruct to-day will not be to-morrow, unless they make corresponding additions to their stock of knowledge and mental discipline. These loitering teachers fall behind the time, and will be set aside for those who have been wide awake to this exigency, and have prepared for it. A poor teacher is a great nuisance, which should be abated, for he stands in the way of, and prevents the employment of, a competent teacher.
One great object and duty of a teacher is to communicate knowledge, and unless he employs his own mind in diligent study, in aequiring new facts and fresh principles, he is unworthy of his profession, and fails in his duty to tho patrons of his school. Wo find occasionally persons who have been teaching five and ten years, and have during that time made scarcely any really manifest improvement, or increased their small fund of general information. Their acquirements might have been considered respectable a few years ago, but they have neglected to advance with the educational progress of the times, and now their scholarship and ability to teach can no longer be regarded as wrothy of employment or respect. The true interests of the deacher's profession, the manifest welfare of the common schools, demand that the Board of Examiners should unhesitatingly tumblo such stationary teachers overboard. Other teachers, although not exactly or positively stationary, who make but snail-like progress on account of inherent dullness, should make way for others, who are already fully equipped with the amount of mental activity and ripe scholarship demanded by the teacher's charge. A successful teacher is always an carnest and diligent student of books, and of the world around him. A true teacher, growing mentally rich by active industry, is one of nature's noblemen. That office, which confers the power of moulding the minds and morals of the men and women of the next generation, is as honorable as it is responsible; and common schools are assuming an increased importance in the opinion of the public, by whom they have been 100 much neglected and undervalued, and their interests committed to unskilful hands.
The assertion is sometimes made that ' any one is competent to teach a common school, and especially one of small children.' Ignorant persons, unable otherwise to earn a living, are pronounced fit and qualified to gather around them the freshest, youngest spirits, and to inecribe the most impressible page of human existence. It is sometimes urged that as particular branches will not be taught in cortain districts, that these should be omitted in the examination. The law designates what branches are required of overy candidate, and to omit any one of these branches in an examination, is a
direct violation of tho law. A person, to be qualified to tako charge of the intellectual culture of youth, although backward and young the children may be, ought to have the intellectual disciring arquired by tho mastering of these elomentary brancies upon which the law dequires an exammation. A nerson not qualified to teach all of the required branches, is not qualified to teach any grade of school. No person should be intrusted with any common school, however stmall in number or obscuro in locality, who is not quatified to instruct in those branches required by law. These lumble altainments are the substratum off all correct education, and they are too much neglected. The pupils of every school ought to have a teacher thoroughly competent to impart these elementary studies, and one who, in the intervals of leisure, will be active in acquiring highor branches of knoviodgo; thus be a self-educating teacher, anil a living example to his pupils, of the unresting progression which is required of ambitious pupils. May the number of self-educating toachers increase, and receive as their just reward the favor and increased material patronage of the pirblic, to whom their faithful labors are so invaluable.-Ohio Journal of Education.

## The two Candidaten

The citizens of B. had become pretty well convinced that if they would be sure of having a good school, they must first make sure of a good teacher; and that to secure a good teacher they must offer good inducemonts,-to retain him they must treat him kindly and generously. Thoy had tried chenp teachers long enough, and from such their schools had greaty suffered. The old moto, "a cheap teacher and a long term," had lost its power, and a now one had taken its place, which was, "The best teacher is not too good for us; $n$ gooll ono we will have or none.: With such feelings as these facts indicate, the people were ready for right action. Though they believed in words, they balieved more in deeds. Consequently when the meeting was held for choice of district committee, all felt it a duty to go, believing that the first step was quite as important as any. And they did go. The school-house was well filled. The atate of the district affairs was freely discussed, and a feeling of harmony prevailed. Mr. Nason was unanimously elected as district committee. He had several children to be educated, and he had long felt a deep interest in the prosperity of the school. The only insiructions the district gave to Mr. Nason were, "to hire a good teacher and pay him liborally," and those who knew Mr. N. deemed it superfluous even to do thus much, for he not only possessed zeal in scnool matters, but a knowledge-tempered zeal.
Two prominent candidates soon applied for the school. Though the duty of examining rested with the school visitors, Mr. Nason resolved to exercise the privilege of making a private examination as preparatory to the more decisive one by the board. Accordingly he invited the two candidates to call upou him,-each at an hour designated. - hoough not both at the same hour.
The first was Jotham Standstill. He calls at Mr. Nason's, entera, and seating himsolf, with hat upon his head, and quad of tobacco in his mouth, when the following conversation takes place:
Jotham S. They tell me you are the new committee man, and I have called to let you know that 1 would like to keep your school this term.

Mr. N. Well, we wish to employ a good teacher. Have you taught before?
J. S. O yes, l've teached school three terms, and I understand the business. 1 can whip any boy, no matter how big he is.

Mfr. N. Yes, but we waria teacher more than a whipper. Have you ever attended a Normal school?
J. S. No, I don't believe in such schools. I never saw one and hope I never shall. I think nat'ral teachers are the best, and I am one of that class.
Mr. N. Have you ever attended a Teachers' Institute or Teachers' meeting?
J. S. No, and I never intend to. If I can't keop school without their aid, I'll give up and return to my old business of oasving wood. They may do well enough for beginners, but they won't ansser for me.
Mr. iN. Then you don't belicve in the old maxim, "never too old to learn."
J. S. Not quite. When a man knows a thing he knows it, and that's enough. I know how to keep school, and I don't want to hear of any of the new fangled notions.
Mr. N. Do you take or read any of the School Journala?
J. S. Not I. I have no dollar to throw away in such trash. When I can get plenty of storics about murder, love, and ship-
wreck. I dou't want to sec any of your teachers' journals. I nover read a pago in one in my life, and what is more 1 don't mean 10. $\mathrm{Mr} N$. Do you own or read any works on oducation?
I. S. No, I have no inclination to read such works. What's the use when one knows it all? If you want me to teach your school I ain ready to to the work as cheap as any other man.
Mr. N. I am not prepared to employ you now. If I should docido to need your valuable services I will inform you.
J. S. Well, I shall expect to heas from you. (Exit.)

Mr. N., (alone.) Loug enough have we suffered from such teachers, and 1 am truly thankful that it is within my power to preserve the children from another specimen of the samo class. (Entor Henry Progress.) Good evening, Mr. Progress, 1 am happy to s? you; please be seated.

Mir. P. Thank you, sir. If you are at leisure 1 would like to converse with you in relation to your school, as I learn you are in want of a teacher.

Mr. N. Perfectly at leisure and glad to see you. We do wish to employ a teacker if we can find one of the right stamp. You have had some experionce, I think.
H. P. Yes, sir, I have taught three winters.
$M r . N$. Are you pleased with the work ? do you ove to teach?
H. P. I have been much pleased with it and lumk I may say 1 love the work.

Mr. N. Do you feel that you know all about it and that you have no occasion for learning more?
II. P. O, no, sir; I feel that I am but poorly qualified,- but I am daily endeavoring to increase my knoviledge.
Mr. N. What do you consider some of the sources of improvement ?
II. P. The meaus of improvement are numerous. They who will can learn daily from many sources. Good Normal Sohoois, Teachers' Meetings, Instituter, \&c., afford very valuable aids to teachers.

Mir. $\Lambda^{\text {: }}$. But don't you think some are natural teachere, and find such belps as you have named unnecessary?
H. $\boldsymbol{P}^{\mathbf{P}}$. I believe that some naturally possess better qualities than others, -but I also feel that none are so good or so perfect that thoy cannot receive benefit from the sources I have named. I feel greatly indebted to such aids, and I am free to admit it.

Mr. N. What do you think of teachers ${ }^{3}$ journals and works on education? Are they of any sorvice to teachers?
H. P. I think highly of them. They have been of great benefit to me, and I should hardly know what to do without them. My behef is that 1 can get some good from all educational works and wrtinge.

Mr. N. What importance do you altach to the teacher's influence out of school? What should be his habits and example?
H. P. I believe that the teacher may and should labor to secure right moral feelings in the hearts of his pupils, and that he should ever strive to lead them to do right from high and honorable mouves. Ithmk the teacher may do much outsile of the schoolroom. But his influence will not amount to much unless his own actions correspond with the tone of his instruction and advice. He cannot, with any hope of success, denounce a habit indulged by his pupils, if he is himsolf guilty of the same. The teacher must aim to be what he would have his pupils become.

Mr. N. I am pleased with your views, Mr. P., and believe they are sound. Would you like to take our school this season?
H. P. I should, sir, and should be willing to pledge my best endeavors to keep a good school.

Mr. N. I think we shall be glad to employ you-but as the law requires that you be duly examined by the School Visitors, we will postpone a final decision until you have seen those gentlemen. If you obtain a certificate, as you doubtless will, please call again. H. P. Thank you, air; good evening.

Mr. N. Good evening. (Alone.) That is the man we want, "cever learning and yet never coming to feel that he is wisdom itself." I shall feel safe in committing to his guardiansihip the youth of our district.-North Carolina Jour. of Educ.

## OFHICIAI NOTICES.

APPOINTMENTS.

## 80hool insesotorb.

3fr. Louis Grondin, a Teacher provided with a Model School diploma, was, on the 7th instant, in the room and stead of Mr. Lanctot, whose resignation has been aecepted, appolnted Inspector of Schools for the
countics of Beanharaais, Laprairlo, and Obateauguay, with the excoption therelrom of the Protastant Schools in Ormstorn and tho tro municipalities of St. Jean Ohrysostomo, in the county of Ohateau: say, these schuols remaining under tho superviston of Ji. Inspector bruce.
Mr. Michol Oaron I cacher, also providod with n Sodel School diploma, was, tho 7 th instont, appointod School Inspector for the counties of Naplervillo, St. Joln's, and Iberville.

Herotofore the county of Iberrille was partly undor the supervision of Mr. Parmoleo, and partly under that of Jr. Lerour.

A part of the county of St. Joln'a was under the superviston of Mr. Lanctot, and a part under that of $3:$ Archambault. Tho latter had, morcoror, under his clasge, part of tho county of St. Hyacintho. On tho 7 th instant, the parishes within this county, swich had been, up to this date, under his supervision, wero annexed to the district assigned to Mr. Loroux, the whole county of St. Hyacinthe boing thus placed under bis jnspection.
The limits of the Districts of Inspection affected by these changes, now stand as follows:-
Mr. Caron's now District . countics of Napierville, St. John's, and Iberville.

Brr. Grondin's District: countics of Beauharnnis, Inamirie, nnd Jhateauguay, with the exception of tho Protestant Schoole of Orr stown and St. Jean Chrysostome.

Mr. Parmeleo's Districi: counties of Alissisquol, l\}rome, and Sheford
Mr. Lucrour's District : counties of Bagot, Rouvillo, and St. Ijacinthe.
afr. Archambault's District. counties of Richelieu, Vercheres, and Chambly.

## SCHOOL COMBISSIONBRS.

His Excollency tho Governor General in Council was pleased, on the 7th instant, to mako the following appointments of School Commis-slonners:-
Oounty of Gaspé : Ile Bonarenture-Messrs. Philippo Mauger, François Journeau, John Cody, John Lamb, and George Aubert.-Jean Harman, Secretary Treasurer.

Name County: Ste. Anno des Monts-Messrs. Augustin Levasseur, Joseph Lafoniaine, Eilairo Emond, Rigobort Miville, and Jean Baptiste Val-160.-John Perry, Secretary Treasurer.

Same County : Cap Chat-Mesars. Josoph Roy, senior, François Pelletior, Jean Gagnon, Vincent Gagné, and Joscph Rincau.-Louis Roy, Secrotary Treasurer.
His Excellency tho Govgrnor General in Council was pleased, on the Ist ultimo, to make the following appointments of School Commis-sioners:-

County of Chicontimi : Ouiatchounn-Messrs. Thomas Jamme, Edouard Lalancette, Gcorge Bouchard, Protais Guay, and Ainbroise Jamme.

Same County : Harrey-Messrs. Louis Sarard, Felix Simard, Pierre Simard, Dominique Gagnon, and Ignace Tremblay.
County of Drummond: Wiet-"n-Xr. Michel L. :onard,-former incumbent deceased.
geraration and erection of school hunicipalities.
His Excellency the Governor General iu Council wns pleased, the 7th instant, to separate the localitius known under the names of Ste. Anne des Monts, and Cap Ohat, in the county of Gaspe, and to caect the same into separato School Junicinalities-the Municipalits of Ste. Anne des Jonts to comprise the wholo of that territory which exicnds from the place called "La Tourelle," on the North-enst, to the stream called "Ruisseau Sasseville," on the South-rrest, forming a tract of three leagaes and a half in extent; and the Nunicipality of Cape Chat, all the territory which extends from the Ruissena Sasserille, on the North-east, to the Capucins, on the South-west, forming a tract of four leagues in cxtent.
His Excellency the Governor General in Council ras pleased, on the 12th February last, to annex to the School Municipality of Ste. Ccile de Jilton, in the County of Shefford, the first five numbers of the first six ranges in the School Municipality of Roxion.

## bOARD OF EXAMINERS FOR THE DISTRICT OF OTTAWA.

Misses Margaret Griffin, Margarot Grant, Mars White, und Messrs. Richard Gorbett, James Gray, Hilaire Joachim Jonvent, David C. Leahy, William Schofield, and Edrard Smith, have obtained oiplomas for teaching in elemontary schools.

Jobs R. Woods, Secretary.

OATHOLIC bOARD OF EXASINERS FOR THE DIBTRICT OF QUEBEO.
Bifr. Eliséo Noöl has obtained a diploma for toaching in model schools.
Misses Délina Charron, Ositho Néron, Arila Pelletier, Marcelline Rousscau, and Mr. Edmond Marcotte, havo obtained diplomas for teachng in elementary schools

## N. Lacasses, <br> Secretary.

## gitdentions manted.

Nies Henricta Tarr, prorided with a diploma, would accept of a situatir- as English Teacher or Assistant Tencher in an ElementarSchool. She is also prepared to teacla tho elements of Music and Draring Apply at tho Education Oflice.
teacher who ofters to give satisfactory testimunials 28 to his cajacity and good morals, is desirous of employment in n Model School or an Academy' lle is the holder of a Normal Sehool útploma, and would undertako to tench Iatin and Greek, as well us English, and mathematics. He is married, and a Protestant. Applications to bo made at the Education Oflice.
donations to the lidrari of the department.
The Superintendent acknowledges mith thanks tho folloring donstious:
From Mr. Alexandre Moreau de Jonnus, of tho Institute of France. Paris: Histoire Physiquo des Antilies Françaises, by hienself, 1 vol, in-8, Statislique de l'Agriculture de la France, by himeelf, 1 vol. in-8; Aventures de Gucrre, by himself, $\dot{L}$ vuls. in-8, Statistiquo do l'Industrie de la France, I vol. in-12; La France avant scs premiers habitants, by himself, 1 vol. in-12.
From Mr. P. A. Olouzet, the elder, Editor of the Journal d'Education, Bordeaux, France: Grammaire des Commençants, by himself, 1 pamphlot in-18; Grammairo Française, by Bimself, 1 pamphlet 12 ; 10 Lirre des Meres de Famille, by himself, 1 pamphlet in-18, Ade M amoiro d'Ortographe, 1 pamphlet in-32, Petit Traté pratique des Participes, 1 pamplilet in-32; Journal d'Education, from 1849 to 1856, 7 vols. in-12.
From Mr. Willian J. Rhees, of Philadelphia: Manual of American Libraries, Societies nad Institutions, I vol. in-8.

## JOURNAL OF EDUCATION.

## MONTREAL, (LOWER CANADA) MABCH, 1860.

## State and Progress of Cutucation in Upper Canada.

The following statement on the condition of the Normal, Model, Grammar, and Cominun Seliools in Upper Canada, is abrnderel from the last Report of the Chef Supernintendent of Pubhc Instruction for that section of the province,-the Ruport for 1858-prited by order of the Legislative Assembly, and forming, with the tabular statistics and appendices by which it is accompanied, a volume of 200 pages.-From the press of Mr. Jotin Lovell, Toronto, 1859.

We have, we think, entered at sufficient longth into details to enable our readers to form a pretty correct idea of the working of the educational machinery, and of the results attanned. We are, however, iu justice bound to state that we do not give a complete revsew. This would carry us beyond our limits, and the Report itself can at any time be obtained by those who may desire further information on the subject.
It is a most encouragmg fart, and substantiated both by the Upper and Lower Canada official Reports, that in general the public schools of the province have enjoyed uninterrupted prosperity, and progressed very materially, despite the financial depression and prostration of trade which wero universally experienced in that and the preceding year. The stringency of the times was such, however, that it was feared the educational, as well as all other interests, must be affected. In this painful apprehension Dr. Ryerson, as he expresses 1t, has been pleasingly disappomied.

From a résumé of the statistical tables accompanying the Report it appears that in 1853 , the number of pupils who attended the common or olementary public schools, from the ages of 51021 years. was 293,683 , showing an increase of 21,046 on that of the preceding year. The school population limited to children from the ages of 5 to 16 years, entitled to attend the schools was 360,578 -increase 35,690. This, however, was not the whol: common schoul population, as througl! some omission in the pt. izions of the law, the returns were not made to show the number oi peisons aged batween 16 and 21 years to whom the law has, since 1850, extended the right of attending the schools. The number of children who altended, between 5 and 16 years, was 267,383increase 19,919; and of those of this class who did not attend these schools the number was 93,195, as will appear on comparing the foregoing figures. Of children reported as not attending any school whatever, the number amounts to 52,943-increase 6,216; a pro-
gress in the wrong direction certainly, but for which some compeusation may be found in the fact that, in both years, there has boen a steady increase in the number of pupils studying the lugher branches of common school education, and that the number of attending pupils from 16 to 21 , or upward, is put down as 26,300 -3n increase of 1,097 .
In Lower Canada the number of chatldren frum 5 to 16 years was reported in the census for 1858, as 247,204 . There as every reason to helieve that this statement is much beiow the actual amount of common sehool population for the year, even when limuted as above It is well mown that wuthe pout, the returns thad been more or less defective for several years previously. This was owing to divers causes, which having teen already farly explaned, need not be repeated here.
But from reliable data this pupulatuon has been estumated tor the year at over 330,000 , as stated in the Supermtendent's Report.
In L'pper Canada the number of buys on the rolls was 160,633, of girls 133,050 -increase 10,604 and 10,442 , respectuvely.
Int the number of indigent children who attended, there is an increase of 1,670 , the total being 6,490 . But the "distinction of indigent children," to quote the terms of the report, "does not obtain where the schools are free, as tho chald then suttends as a pauper, but all children attend as a matter of right, each inhabitant contributiug to support the school aecording io his property, and not according to the number of his cluldren. ${ }^{\text {B }}$
The rumber of male teachers emplosed at the common schools during the year, was 2,965 -increase 178 ; of female teachers 1,237 -tiecrease 59. Of these 856 ranked as first class teachersincrease 216 ; second class, 2,364-increase 300 ; and third or inferior class 883 -decrease 79. The Council of Public Instruction having recently raised the standard of qualfication, the Chet Superintendent expresses a hope that the last named class will yearly diminish.
With regard to the remuneration of teachers at would appear by the reports of the local Superintendents for the year, that the averaye salary of male teachers was $\$ 454$-decrease $\$ 7$; of female teachers $\$ 242$-decrease $\$ 12$. Had these reports been recetved in all cases, however, the average decrease would not have been material.
The number of school sections (districts), including the ward school divisions in cities and towns, was 4,267 -ncrease 250 . Schocts reported as ripen 3,860 -increase 135 . Sectons not reportins schools open 401.
In the mode of support directly from the people, the figures show a progressive tendency to favor the property prtaciple m preference to the monthly fees or capitation dues. Ot free schoors (that 2s, in which no fees are charged, but which are supporied by all according to property), there were 1,936 -increase 220 ; sctiools partly frec 1660 -inerease 101 . Of the schools in which the rate-bulls were ${ }^{\text {wenty }}$-five cents per monhh for each puph the highest charge the law allows in this form), only 114 remained-decrease 1,240. Those in which the rate-bills were less than tweuty-five cents numbered but 13, showing an increase in the schools abolishing the rate-bills of 431 .
The number of schoolhonses built during the year was 158 , being 43 less than the year preceding. The whole number reported was 3,691 ; of which 352 were built of brick, 244 of stone, 1,505 of frame, 1,573 of lags, and 20 kind not reported. Of the school sitcs 2,993 were held by deed-increase 255 ; held by lease 463 increase 19; rentci 160 -increase 13 ; tenure not reported 78 decrease 165.

During th year $58,9: 11$ visits were made to the schools-increase 9,745 . Of these 8111 , were mate by local superintendents-increase FSS; by clergymen $4,360-$ increase 335 ; by municipal councillors 1,949-increaie 155; by magistrates 2,005 -increase 371; by judges aud members of parliament 353-decrease 13; by school trustees 20,210 - increase 2,180 ; by other persons $21,953-$ increase 5,638.
Of lectures delivered there were 2,957-increase 417 ; by local superintendents 2,389 - increase 144 ; by other persens 568 increase 273.
The time during which the schools were kept open in the year will average ten months and twelte days-an increase of six days; or an aggregate ancrease of 11,990 days.
"It appears," continues the Report," that in 1708 schools, the daily exercises a.e upened and closed with prayer-heing an increase of 159, that the Bible or Testament is read in 2,510leeing an increase of 93. ."
The advantages resulang from a umform system of text books have becth secured for Upper Cauada. Those sanctioned by the Council of Public Instruction, espectally the Natuonal School Books,
are almost universally adopted. Maps are provided in 2,403 schools -increase 113; globes in 612 -the first reportod; blackboarde in 2,895-increase 243 ; sets of apparatus, imeluding orreries, tellurians, \&c., in 500 -inerease 28.
The Legislative grant for 1858 amountod to $\$ 133,000$, or $\$ 3,000$ more than the preceding year. The amount raised by the municipalites was $\$ 270,503-$ being $\$ 137,503$ above the grant, and S52,687 more than tho sum raised in 1857. Ot the sum appor tooned from the Legislativo grant for common school apparatus, prizes, and libraries, there has been a decrease of $\$ 1$,64-1he amount this year being only $\$ 6,577$. The like amount was also furnished from local sources. The total value of articles sent out lo, or elsewhere purchased by trustees, under this heat, was si4,142-decrease $\$ 3,254$. In addition to municipal assessments, the trustee school assessments,- moneys raised and expended chiefly for the purchase of school sitos, and the erection and furnishmg of schoolhouses-amounted to $\$ 486,572$ - being a decrease of $\$ 98,569$. Dr. Ryerson considers this to be a very large amount, taking into account the "resources of the country and the unprecedented pressure of the times." The trustee school ratebills on parents sending children 10 school amounted to $\$ 195,872-$ uncrease $\$ 45,380$. The total receipts for common school purposes was $\$ 1,244,488$-being a decrease of $\$ 49,927$. Total amount paid teachers $\$ 920,633$-increase $\$ 60,402$. The total amount raised and expended fer the purchase of school sites and the erection of schuulhouses was $\$ 173,625-\$ 34,263$ less than the preceding year. For rents and repairs of schoolhouses $\$ 37,250$ - decrease $\$ 356$. For school books, stationary, and to defray incidental expenses $\$ 102,838$ -increase $\$ 13,804$.
The Protestant Separate Schools, established under the 19h sec. of the School Act of 1850 and the 4th sec. of the Supplementary School Act passed in 1853, are stated to be less than a dozen in number. The Catholic Separate Schools, conducted (since May 1855) under the 181 h Vjct. Cap. 131, numbered 94 -showing a decrease of 6 as compared with the statistics of the preceding year. Of these schools 50 were situated in townships, and 44 in citics, towns and incorporated villages. The number of pupils was 9,991 -increase 27. The average time during which the schools sere kept open was ten months - decrease one month.
The amount of Legislative grant apportioned according to proportion of altendance of pupils was $\$ 8,531$ - increase $\$ 16$. Amount pand teachers $\$ 16,731$-decrease $\$ 2,012$. Expended for purchase of school sitee, erection, repains, and furnishing of schoolhouses, \&c. \$11,180-decrease $\$ 2,444$. Whole amount received for separate school purposes from all sources $\$ 28,206-$ decrease $\$ 4,161$.
Of granmar schools there were 75, including 31 Semor County grammar schools. The amount of apporionment from the grammar school fund was $\$ 30,382-$ increase $\$ 2,213$; amount of fees recerved S19,991 - increase $\$ 474$; granted by muncipalities $\$ 13,305-$ decrease $\$ 3,525$; balances from previous year $\$ 11,417$-decrease \$10,314; total receipts $\$ 75,617$-decrease $\$ 10,631$. Salaries paid to masters $\$ 61,073-$ increase $\$ 3,520$. Number of puphls $4,459-$ increase 356 ; of these 1,724 learn Latin-increase 395; 378 learn Greek-increase 94; 851 Frencl-increase 250 .
The returns voluntarily made by the colleges, academies, and private schools of Upper Canada are not complete. The number of students and pupils reported is 7,467-being 358 less than reported the year preceding.
We notice that in Lower Canada, the number of students in the colleges and academies designated under the heading of Secondary Schools, in the Superintenden's Renort for the same year, amounted to 25,224 . In this number are not included the universities and other institutions classed as Superior Schools. There are in these Superior and Secondary Schools 4,991 pupils who receive instruction free of charge, 322 receive gratuitous board, and 543 receive board in part gratis.
In Upper Canada the total sum devoled, in 1857, to free public libranes was $\$ 16,200$. Half this amount contributed from local sources, was chiefly from the Clergy Reserve fund, the other half being apportioned from the government grant. In 1855 there were approprialed, from local sources, chiefly from rates, $\$ 1,991$, which, with the same amount apportioned from the grant, formed a total of $\$ 3,98$ 2.
The Surday School libraries contained 251,489 volumes-increase 20,141 volumes. The number of volumes in the other libraries was 110,639-being an increase durng the year of 13,631 volumes. In public school libraries there wero 167 ,760 volumesbeing an increase of 7,587 . (These were all received from the Educational Department.)-Total 532893-an increase during the year of 41,359 volumes.

Of pubice schoul litrary books there were 29,400 volumes u Ilistory; on Zoolugy, 12,098 volumes, on Botany, 2,174 ; win Natural Phenomena, 4,819 ; on 1 hhysical Scence, 3,749 ; un Geology and Mineralogy, 1,400; on Natural Phutosophy, 2,674; vi
 ture, 7,390 ; on Munufactures, 7,476 ; of Gicneral Literature, 16,359; of I'ravels, 12,178; of ISioyruphy, 18,406; Talcs, 45,651, Teachers' Library, 1,799.
The amount provided and expended for maps, apparatus, atd prize books, was $\$ 11,810$-decrease $\$ 6,308$.
There were 2,201 maps of diflerent hitals distetibuted duntus the year. "The number of globes, orreries, tellurians, sets of appa ratus, and various artacles was 1,474 , ateludalg 3 cumplete selis of Meteorologrcal Apparatus (1).
The number of sheels of Natural History and Phenumena, Serfifure History, and ollter Obyect Lessons was 12,350 ; the number of Prize Bouks was $8,0.15-$ bengy an merease under this head of 5,488 rolumes."
The total value of maps, libraries, apparatus, prize and school books, supplied frum the Educational Depusatuies lo mumicipatities and school sections, in 1858, is set down at $\$ 23$, i65-decrease \$4,013. The total supplied from 1851 to the end of 1858 , being \$156,378.
In relation to the above the followng extrats will aut be funal uninteresting :-
" That the books for librartes, and maps and apparatus of every description, are turmsthed to the remotest mumalpanties and sethool sections in Upper Canada, at lower prices than they are retanted to the public in London, Edinburgh, Boston, New York, or Mhuadelphia; in addition to which oue hundred per cent. is added to the Iocal contributions of our municipalaties and schoot sections for these purposes.
"That all the text-books used in the schools (except the classical, and one or two others,) are printed in Canada, aud mostly on paper of Canadtan manufacture; and nearly all the mans and apparatus (such as globes, orrertes, tellurians, sc., \&e., \&ic.,) are manufactured in Canada, after having been carefully revised or mproved under the direction of the Doparment. Copies aid modets are furnished by the Department to the publisthers and manufacturers, aud they are allowed to use them at their discretion in producing articles for sale 10 all mdividuals and fammes desirng them, white the Department confines its supplies to the munictpaltues and school sectuons. It is highly creduable to the partues engaged in this publisthng and manufacture, to state, that their work is generaliy not ouly equal in pomt of excellence to that ot the Englisti and American makers, but, in many cases, it is quite superior, and, at the same ume, cheaper.
"That this methot of creaung and developmg Canadian manufactures of artucles seldom produced in a new country, and of supplying the municipalities and school sections with libraries and all the ayphances of school instruction, must largely contribute io the improvement of the schooss, and to the intellectual and social
advancement of the advancement of the country."
In reference to the superannuated or worn out teachers of common echools, the Report states the number of pensioners on the small fund allowed for their relief to have been 170. Of th se 15 died before receiving the pension for 1853 . Of the 155 survi-rors-147 male and 8 female teachers-the average age was 65 years, and their average period of service $21 \frac{1}{3}$ vears. 54 were members of the Church of England; 50 members of the Presbyterian Churches; 27 of the Church of Rome; 18 of the Methodist Churches; 5 of the Baptist Churches, Sce. 79 were natives of Iroland, 52 of Scotland, 15 of England, 14 belonged to Upper Canada, 6 were from the United States, 2 from Lower Canada, 1 from Wales, and 1 from Nova-Scotia.
Six dollars per annum is the maximum of the snm allowed under the provisions of the law to the pensioner for every jear that he has taught a common school in Upper Canala. Owing to the insufficiency of the fund ( $\$ 1,000$, besides subscriptions), the amount afforded to each pensioner would be under two dollars for each year
of tuition, so that no new claimants could be admised excent such of tuition, so that no new claimants could be admited except such

[^0]ds praid cunuat subsurtutums. The teachers who availed themnulves of the priviluee were cumparatively few, but, addo the Report, "as thic easting pensioners die, those who survive will, of cuanse, recenve a larger divilend; and the teachers who subscribe will the maternally assisted when they becume worn vit, as thume but sulscribers nimh lereafler be entulted to participate in lisu furd."
The Nurm,it Suliouls do represented as betag th a very efficient condtuon. The number of applicatons and admissions exceeded those of lurmer years. The first session 162 stuleats were admatteil, ant the second 196 ; total- 358 . Of this number 180 had beet teucletio. It "was a.so duturyated that the Mudel Grammar Schevi not long opened, would be quite successful.
The Fiducathonal Museuni funded after the example of the Imperial nyolem, had been visted by many persons from all parts of the cuathts, and fivat abluad. As, a means of imparting direct austrullunu, uviaute cuin be muve efficient than an ansutution of this hand, espectaliy unc pussessung an extensive collection.

## Tenth Conferenco of the Teachers' Association in Connemion with the Jacques-Cartier Normal School, Held Friday, the 27th January, 1860.

The Presulent hathin when the chair, the Sucretary read the minutes of the previous meeting. Messrs. Roch Martineau and Elie Moitean were aypuinted to prepare essays to be read at the meeting in Mat, and hat fullowing sulyect was chosen for debate at next meeting:-" Whether arithmetic, geography, general history, \&c., can be Letter taught from a system of oral teaching from notes or from text books?:"

The Superintendent of Public. Instruction then addressed the meeting, and, in the course of his remarks, alluded to the means recently adopted for bringing our teachers to the highest state of efficiency. He then announced the formation of new districts, and the apponiment of new inspectors, expressing a hope that these would, as far as practicable, te selected from among the teachers of the district to which they were appointed; and added, that by taking an active par: in the Association, and attending the meet trge, teachers wuad becume better known to the department. He urged them to consider that their divancement depended chiefly on their own exertions; salary shoul! not be placed above every object ; other resources cuuld be rendered available; as an eample, lue would suggest horticulture. He invited all teachers to be preeent at these meetings, and to send to the Journal of Education contributions on any sulject they may choose, to be treated as best suited the talent and taste of each correspondent. He concluded by readine a paper on "the present position of public teachers in France," ably written, by Mr. Theodore Barrau.

Mr. Jardin followed, with a lecture on the method of teaching mathematics.

The Secretary having stated the subject to be debated as follows: -"Whether it would be of more advantage to date the commencement of the scholastic year from the Ist May or from the lst July:"-Messrs. Emard, Moffatt, and Girous thought the propertime would be the middle of August, as the vacation would then occur during the greatest heat of summer.

Mr. Boudrias held a different opinion. September, he sand, :' 'uld be the month, as the vacation would then correspond it the harvest time.

Two of the former speakers pointed out several objections, and were answered by Mr. Leroux, who was followed on the same side by Messrs. Bourbonnière and Simays.
intr. Valade proposed the 1st or 15 thi ot October, and urged the importance of skilled honiculture. Mr. Lesoux supported thas proposition, and satd that during the time of harvest the schools were almost descrited, and that teachers themselves required lesure to reap what hitle they may have had time to sow.

Messrs. Gauvreau and Perrm held the same language with tite las: speaker.

The President having reviewed the arguments advanced on both suies, clectared his intention of putumg the question to the vote, when Mr. Houdrias, seconded by Mr. Emard, moved an adjournment until 12 o'clock, $P$. M., which was agreed to.

At the hour appointed the Presudent again took the chair, and after some further debate, the members present unaninuousiy pronounced themselves for datug the scholastic year from the lst of September-the vacation to commence the 15 th of July.
ilir. J. V. Regnaud, a Professor in the Normal School, having been called, addressed a few words of kind advico to the teachers, which were received with applausc. The tinanks of the meeting were then tendered the Hon. Mr. Chauveau, and Messrs. Verrean,

Megnaud, Valade and Loroux, for the active past thoy had taken, and the valuable counsels hoy had offered. To this Messrs. Valade and Leroux responded in appropriate terme. After a vote of thamks to the President, the meeting adjourned to the last Friday in May.

Ninth Conferonce of tho Association of Teachers within tho limits of the Laval Normal School, Held Saturday, the 26th January, 1980.
Were present: Rev. Langevin, Principal, and the Rev. Abbe Fortter ; F. E. Juneau, Esq., I. S. ; and Meisrs. J. C. Lafrance, (Presidem) F. X. Toussain, Chs. Dion, A. Doyle, J. B. Clouter, Ls. Lefebvie, Jos. Létourneau, B. Pelletier, N. Thbault, A. Demers. J. Donnelly, B. Routcau, J. DoGuise, A. Esnouf, Geo. Tremblay, Régrs Roy, O. Legeudre, N. Lacasse, L. F. Tardaf, Thel. Lefebvre, F. Fortin, J. Lachance, 1. Drolet, F. X. Gilbert, S Côté, and E. Labreque, teachers, and the pupils of tho Laval Normal School.

The minutes of the last conference were read and adonted. Mr. Louis Lefebyre dehvered a lecture on "Electricity;" Mr. C. L. Lafrance spoke on the lot of the teachers in the coumry, and mentoned the many difficulties they have to contend with in obtanaing their salary from the School Commissioners. The following question was then discussed, viz: "What are the best means to secure to the teacherf under the controi of the Commissioners, the regular payment of their salaries; " and the following resolutions, proposed by the learned Principal, were unanimously adopted:

Resolved-That, in the opinion of this Association, the regular payment of the salaries of the teachers under the control of the Commissioners, might be obtained by the following means:
10. If the Secretaries-Treasurers of the seholasucal mumeipalties were strictly required to give security every year.
20. If the Easpectors examined carefully and in detail the accounts of the Secretaries-Treasurers, and ascertained the amount pard and the amount due to cach teacher, by questioning the Commissoners and the teachers themselves, and if they were obliged to make, semi-annually, a report in detail to the Superintendent.
30. If the Commissioners were bound to exact the monthly fee, and to pay the teachers with it every month. The balance due to the latter could be paid on receipt of the Legislative grant.
40. If, according to the latw, the Commissioners, exacted the payment of the rate from the rate payers during the month of July of each year, and if they were bound to sue those in arrears after the delay of one month (the month of August), under penalty of themselves paying personally a fine. It should devolve on the Inspector, in his quality of Justice of the Peace, to exact the fine, without the power of exempting them foom that obligation.
50. If the Commissioners were condemned to a similar fine by the Inspectors, should they delay more than a month after the expiration of each term to pay in full the salary of the teachers for that space of time.

Resolced-That a petition, based on the preceding resolution, be signed by the President, in the name of this Association, and sent in to the Honorable the Superintendent, with prayer that he be pleased to submit it to the favorable consideration of the Council of Public Instruction.

Resolutions were afterwards passed expressing the gratification of the Association at the appointment of Messrs. Juncau and Boivin $t 0$ mepectorships. It was also resolved 10 request the Superintendemt io pormit that the payments of subscriptions to the Journal de l'Instruction Publiguc, and the premiums to the pension fund be in future placed into the hands of the Principal of the Laval Normal School.
The following subject was chosen for debate at the next meeting: "What would be the best means to adopt so as to fix the minimum of salary to be paid to leachers? $"$
The meeting then adjourned to the last Saturday of May next.
Teschers' Association an connexion with the ancGill Normal School.
ANNUAL REPORT.
To the members of the Teachers' Association, in cnnucriom with fhe AIcGill Normal School.

## Ladies and Geatlemen,

The conmutce of the Association beg to submit ther third Annual Report for the jcar ending lat Jan. 1860.

As the work in which the Association has been ongaged durine the past yoar, so nearly resombles that which occupied their attention during the previous one, a lengthened Heport of its affare is, in the opinion of your Committee, entirely unneceessary ; particularly when it is taken into consideration that the business of the offices! is so well understood by the members.

For the informalion of teachers in general as well as other friends of Education the Committee considered it necessary to insert an advertisement every month in the Montrcal Transcript, giving the subject of the Essay to be read, and the name of the Essayist, the day and hour of meeting, elc. By this means, it was thought. many more would be induced to join the assoctation; but in thrs the Commuttee regret to say they have been some what disappointed. The attendance at each monthly meeting is, however, takus many circumstances into account, quite satisfactory-she numbet of Teachers and assistants averaging from 25 to 30.
It is to be carnestly hoped that the Association will persevere in its work, and should the results bo but small and gradually produced, still in time the geod ellects will be seen and appreciated by all who have the cause of Education at heart.
Your Committee have given up all hope, at least for the present, of beng able to obtain a government grant in aid of the funds, all their effonts to procure such assistance having failed.
The Papers read and discussed during the year are as follow:1st by Mr. Maxwell, subject, "Sacred History:" 2nd by Prof. Hicks, subject, "Mental Science: A study of importance to the Elementary Teacher." 3rd, by Mr. Burns, subject, "Algebra:" 4th. by Mr. Pope, subject, "Map Draving with illustrations," 5th., by Mr. Brown, subject, "Theobject of Teachers' Assuciations." 6th by Mr. Robertson, subject, "Language." Tth by Miss Mattinson, subject, "Music with illustrations;" this laper was tepeated. 8th by Mr. Arnoid, subject, "The Progress of Education in Lower Canada." Each of these Papers formed a topic of much discussion among the members, and often elicited many pracucal hunts that may be the means of assisting the teacher in his difficu!t and arduous wrork.
The Commiuce cannot let this opportunity pass without thanking the Editors of the Montreal Derall, Gazcttc, Transcript, IFitness and Journal of Education, for their kindness in publishing the Report for the year 1858.
The Editor of the last named journal also deserves their cordial thanks for publishing in fall soveral of the Essays read before the Association.
In closing their labours for the year 1859 your Committee vrould now offer up their humble thanks to Almighty God for his guidance and assistance in the important work in which they have been engaged, and they would earnestly recommend every member to scek His help, not only to further the objects of the Association, bul for the progress of Education in general throughout the country, fur without His blessing on the Teacher's labours it is in vain to hope for good and permanent results.

> H. ARsiozD,
> Corresponding Secretary.

Miontreal, March 1860.

## Report of the Chier Superintendent of Pubitc Instraction for Irover Canada for 1858.

Translated from the French by the translators to the Legislatite Assembly.

Eitracts from the Reports of the Inspoctors of schools.

## Extracts from Reports of Inspector Bruce.

Iluntingdon.-Since 1855, Education has made rapid adyancement in this municipality, and were thoy not so much given to clanging teachers, $I$ believe, the adrancement would still be greater. At present, three common schools and the Academy are in operation.
Elfin.-The fire schools of this Tornship are kept pretty regularly in operation, except the School of District No. 2 . The most manifest progicss of scholars, 25 in schools of districts Nos. 3, 4 and 5. Tho children attending No. 2 progress yery little. What very much retards cducation in ihis township is low salarics. The highest salary is only $£ 36$. The consequence is, that teachers of superior qualifications never apply for their schools. Small salaries are not to be attributed to the peoplo's want of means. Elgin is one of the most thriving torsehips in this part of tho Province,-
lownships not nearly so thriving as Elgin give far more towards Bupporting their schools.
theodmanchester.-Godmanchester has 11 schools. Only 1 of erse, (No. 9,) is at present without a teacher. The results of the examinations of 6 of these were satisfactory; 4 were found in a state. 8 , and No. 9, when in operation, was in a pretty satisfactory state. Generally, the education of the children in this township, and acquiring a character more healthy and intelligent than formerly; leachin people, generally, appear to be more diposed to make efficing more remunerative, with the view of securing more efficient teachers.
St. Anicet.-In the majority of the schools of this parish the progress of the scholars is tolerably fair : that of the children of Nos. 1 8 and 4 , is very manifest. The schools of districts Nos. 2, 3, 7 and The at present under mediocrity-attributable to inferior teachers. he internal and very unseemly disputes in this parish have done Ware still doing much to retard the advancement of education. Were the people as earnest, and united in their efforts, to support heir schools, and secure efficient teachers, as they are disunited and determined, in opposing each other in school matters, their haldren would be reaping more fully the benefits of education. I are, however, to report more favourably of the willingness of the school Commissioners to accompany me to see their schools examined, and see them better supplied with apparatus.
Dundee.-I have still to record my dissatisfaction with the schools school Township, the mode pursued in managing schools, and school affairs, and especially in engaging teachers. Very seldom, $d_{0}$ I find twice the same teacher in the same school. Constantly changing and engaging incompetent persons to conduct schools, is ost ruinous to them. Under such mode of school management no school can thrive. Not unfrequently doI find half their schools Whithout teachers,- the township has 8 school districts. Two of ${ }^{\text {cose }}$ were without teachers when lately visited; and of the 6 alisools in operation of only one have I been able to report as in a in the othery state. Found two far from satisfactory. The children ches taught,-though not much to the credit of the teachers. Were ca School Commissioners men of more nerve and determination in carrying out the school law, no question the schools would be in a nere fourishing and satisfactory state. They exhibit a degree of hegligence and apathy scarcely excusable.
Finchinbrook.-The School Commissioners of this Township A numbe much to advance education within their Municipality. A number of their school districts have been much enlarged, to ${ }^{8}$ uable them to engage superior teachers. And in this they have an inferior. When I last examined their schools I found not in one gencerior teacher. And the children are taught with an intelliall the ond zeal which is very creditable to their instructors. Nearly $l_{\text {law }}$ requires. Examining schools thus conducted, and children so efficiently trained, is certainly cheering. The only school which nears not my expectation is that under dissentient trustees.
Franklin.-This Municipality has 8 schools. The children attending Nos. 6, 7 and 8 are in a very backward state. In the most want of ary parts of their education I find an imperfection and a discoun advancement, which is really painful, and not a little more saging. The scholars of Nos. 1, 4 and 5 are progressing far Knowledge satisfactorily. The degree of intelligence and amount of pains take manifested by not a few in these schools, prove the conducted by the teachers, and the advantage of having schools 2 and 3 by steady persevering masters. The schools of districts Ormstow an upward tendency.
tion of proving my field of inspection, whose schools take the lead in imengage. The reason is obvious; their teachers are better paid, $\mathrm{f}_{0}$ raged for longer terms, and the engagements of some continued reported ; of 12 schools in operation, I have in my present report, page 11. none as in an unsatisfactory state. See tabular view ginning 11. Both the School Commissioners and the people are beSt. Jean C more in supplying schools with suitable apparatus.
$J_{\text {Oalu }}$. Jean Chrysostôme, Division No. 1. -In this division of St. the dissentsostôme, two schools are doing remarkably well; viz sioners. The school, and that of No. 1 under the School Commis. What could schools of Nos. 2 and 3 are in a fair state, but not noted could be wished. The children attending these schools are ocholar for bad attendance, for which we have to blame, not the test diars but the parents. Irregular attendance is one of the greaSt.fficulties with which the painstaking teacher has to contend. has been Chrysostonme, Division No. 2.-Since the school law
estly improved. But of no schools can I yet say that its scholars
are really well advanced. Till lately so backward were nearly all the children, that it will require, with even good teachers, some time to bring them up to the standard of good common school progress. The best conducted schools are those of Nos. 2 and 8. In reading and writing the children of No. 1. French, are making fair advancement,-in other branches their progress is very little. The other schools in operation are not yet in a very satisfactory state. Without able and more energetic teachers, these schools will continue in their hitherto lame, tardy, and languid state ; and to attract abler instructors, salaries have to be increased.
Hemmingford.-Speaking generally of the schools of this large Municipality I would remark, that to enable them to have efficient schools, the number of their districts must be lessened. Without this it is not in the power of the School Commissioners to give such salaries as will secure efficient teachers. The teachers in charge of their schools at present are, (two or three excepted,) by no means qualified to conduct schools with advantage to the scholars. Not a few have neither energy nor talent for teaching. As for skill in managing schools, it is a qualification of which they know little.
St. Andrews, County of Argenteuil.-Education has in this parish made within the last two years, very favourable advancement. The position of three or four schools is very favourable, and an indeperdent school in the village of St. Andrews is also doing some service to the cause of education. I have to record my entire satisfaction with the present state of the Academy of the parish, under Mr. M'Inıyre, and of the schools of districts Nos. 3 and 6. The majority of the children attending these are advancing in their education steadily and intelligently. The progress of a few is rapid and highly creditable to their teachers. Of only three schools can I say that they are below mediocrity. The principal cause is, that their districts are too small and weak to make it possible for them to keep their schools regularly in operation, and under efficient teachers. It is true that School Commissioners might do more to keep the schools of these districts open, by raising the parish school assessment and monthly fees, but this, from prudential considerations they decline to do.

La Chûte.-Of 3 schools in this Municipality, only 3 are in a backward and unsatisfactory state. So irregularly are these kept open, so bad is the attendance of the scholars when they are in operation, and so incompetent often are their teachers, that it would be surprising if, under such circumstances any manifest progress could be made. One of these districts, (No. 5,) is noted for its internal disputes about its school and teachers. For this the School Commissioners cannot be altogether exonerated. So long as they allow the people to engage their teachers, and control their school as they please.

The other schools in the parish are conducted satisfactorily ; those of districts Nos. 1 and 2 especially. The pupils of both these schools are advancing steadily and many of them rapidly in all the branches taught in common schools. Of their teachers, I am happy in being able to speak in terms of decided approbation. They are zealous, painstaking and assiduous.
Gore and Wentworth.-The state of schools and of education in these Townships is far from favourable. Twice have I visited the schools of these Municipalities, and finding only one or two in operation, and these conducted by very incompetent persons. The only reason given by the Commissioners for having their schools so frequently closed, is, not the penurious disposition of the people, who will not allow their school taxation to be increased, nor monthly fees to be levied, but the general low circumstances of nearly all the settlers. I admit there is much truth in this. Nearly all the land in these townships, is rugged and unproductive, and much admits not of cultivation. Yet I cannot persuade myself that more cannot be done for educating their youth. Were the School Commissioners, with the cooperation of the people, more zealous and determined, more alive to the work and importance of education, and to take a sincere and cordial interest in the educational wellbeing of their youth, more, unquestionably more, might be done. See farther page 19th of my report.

Chatham.-This Township has 15 school districts: and each sustains a school. At last visit the schools of Nos. 4, 6, 9 and 11 were without teachers. Of those in operation 5 were found in a satisfactory, state, viz: Nos. 1, 2, 3, 5, and 8, the most advanced scholars are in Nos. 2, 3, and 8. In these schools the children are, at present, receiving a very fair, and rather extended practical education. Their teachers appear to be earnest and assiduous, and doing much to develop and to train all the faculties. I observed that in two of these the teachers do not a little to stimulate a craving for knowledge, give vigour to attention, and a practical character to the understanding. The rest are of the mediocre class of schools. In two of these the French only is taught. Not being
long in operation. the scholars have yet made little advancement, except in reading and writing.
I have to report favourably of the Commissioners of this Municipality. They devote not a little of their time in attending to school matters, and keep their schools in operation.

Grenville and Union.-For my remarks on Grenville an! Union, see page 23rd of my report.
City of Montreal.-Tie schools under the control of the Protestant School Commissioners of Montreal continue to sustain their former high character. These schoois go under the denomination of common schools, but, in fact, few, if any of uur model schools excel them.
('To be continued.)

## MONTHLY SUMMARY.

## EDUCATIONAL INTELLIGENCE

- The Edinburgh Courant says:-"It has been arranged that each of the Orleans Princes shall place one of his sons at the Edinburgh High School, under the care of Dr. Schmitz, who acted as tutor to the Prince of Wales during His Royal Highness's recent stay in Edinburgh. The names of the youthful Princes, who are all about 14 or 15 years of age, are the Duc d'Alençon, second son of the Duc de Nemours; the Duc de Penthierre, only son of Prince de Joinville; and the Prince de Condé, eldest son of the Duc d'Aumale. The Comte d'Eu, eldest son of the Duc de Nemours, is about to join the Spanish army in the present expedition to Morocco."
- The Mayor of Douai, France, in a circular to the communal schoolmasters, expresses his determination to put down the precocious habit of smoking, which he learns, by the reports of the police, prevails to a deplorable extent among the boys of that city. He therefore desires all the schoolmasters, not only to mark down for punishment all children whom they may see smoking in the streets, but to search the pockets and portfolios of the scholars from time to time, and to take away all cigars, cigarettes, pipes, and tobacco which may be found. He authorizes the most severe punishments, and will sanction any measure which the schoolmasters may devise to check the growing evil.
- A deputation, consisting of gentlemen connected with various interests of Ulster, waited on his Excellency the Lord-Lieutenant, at the Viceregal lodge, yesterday, at 1 o'clock, for the purpose of communicating their views on the subject of intermediate education. The Right Hon. the Chief Secretary was present.

The following memorial was read by the Bishop of Down and Connor:-
"That there is a great want in Ireland of a higher class of scr ools to carry on the instruction received in the lower schools; that, as an incidental effect of the establishment of the national system giving cheap instruction in the elementary branches, many mixed schools which combined Latin and mathematics with English reading have disappeared; that the colleges have not been able to accomplish all the good which they would otherwise have effected in consequence of the want of suitable feeding schools; that the merchants and manufacturers have a difficulty in finding educated clerks and skilled workmen; that in other countries in Europe, in Canada and the United States of America, provision has been made for teaching the higher branch in every town of importance, and in not a few villages; and that, as your memorialists can testify, there is a strong desire felt by the middleclasses, and even by the more elevated portion of the operative classes in Ireland, to have the means of education in languages and science within the reach of their children, in order to fit those who wish it for the learned professions, for the public service at home and abroad, and for the higher walks of mercantile and manufacturing life. Looking to these facts, your memorialists are most anxious that the Governement should aid, as in other countries, in stimulating a higher education. Memorialists are of opinion that this would be best effected by the erection, under public authority, of a number of schools for the higher branches of knowledge in various parts of the country. Memorialists conceive that these schools ought to a large extent to be self-suporting, but nided by public endowments, and under a systematic Government inspection; and that they ought to be non-sectarian in their character, so as to be available for the instruction of youth of all denominations without distinction. Memorialists willingly leave the details of such a measure to be arranged by your Excellency and the Right Hon. the Chief Secretary for Ireland, but they beg leave to call your Excellency's attention to two important public facts :-One is, that there has been drawn out by a commission appointed by Her Majesty, on the recommendation of a former Lord Lieutenant, an able and elaborate report on the endowed schools of Ireland. The constitution and existing state of these schools
are there fully set forth, and a unanimous opinion expressed that they need to be reformed; and it is now expected by the country that there should be legislation on the subject. It is confidently hoped that, without interfering with the will of the founders, there may, by a better distribution of the funds, be furnished the means of aiding new schools all over Ireland. The other is, that the Committee of Her Majesty's Council on Education for Great Britain does encourage the teaching of Latin to a limited extent in the schools of England and Scotland, which are aided by a grant from the Legislature. The pupil teachers in these schools may receive instruction in Latin, and teachers qualified for giving instruction in the elementary branches get a higher status and \& higher salary when they can stand an examination in Latin. The ex tention of a like provision to Ireland would be reckoned a great boon. Every Lord Lieutenant who has been in Ireland for the last six years has expressed his approbation of such a measure as that which we now crave ; and as full information has now been obtained, and as everything is ripe for legislation, it would be peculiary gratifying to your memorialists if what has been so long talked of were now executed undet the lieutenancy of one who has long been led, by his high literary tasteg and his patriotic feelings, to take the deepest interest in the educations institutions of Ireland, and who can on this occasion have the assistance of the administrative talents of the distinguished statesman whom Her Majesty has been pleased to appoint as Chicf Secretary for Ireland. And your memorialists will ever pray."-London Times.

- The annual examination of the Missisquoi High School, situated between Cowansville and Churchville, took place on the 27th of February.

As far as the time permitted, the scholars were questioned upon all the various branches pursued, without having their attention previously directed to any part in particular ; and their answers gave evidence of their industry and perseverance, and of the thoroughness and completeness constantly aimed at in this Institution.

The classes in Arithmetic, Algebra, Geometry, Grammar, Geography, Latin, Greek, French and Music, did themselves great credit, and would be an honor to any educational establishment.

The exbibition in the evening was most entertaining and instructive and was attended by such a crowd as could not well be accommodated in the large and spacious school-room of the Academy. From the mannef in which the pieces were recited, it is evident that there is no deficiency among the scholars of this school in regard to the speaking or debating talent, which may be of so much service to themselves and their coun try in future time. The Musical performances, ably presided over bJ Mrs. Bews, were most pleasing and effective.

Parents and friends of education should show that they value leard ing, and are disposed to encourage children amid its difficulties and toils, by making it a point of duty to be present at the literary examin ${ }^{8}$ tion, as well as at the lighter and more popular exercises of the exhibi tion.-Waterloo Advertiser.

- We call the attention of parents and of teachers to the following fearful accident :
"From the Quincy (Ill.) Herald, we learn that a most terrible cal amity, rivalling that of the Pemberton Mills, occurred on Thursday 1884 near the town of Hardin, Illinois, on the Illinois river, and about twenty five miles above Alton. Fifty school children, in attendance at. university at that place, went out upon the ice to play. The ice gav way, and, with one exception, all were lost. Our informant was uns ble to give further particulars, but he represents that the village was scene of universal mourning, almost every family in it having lost on or more of its members."


## LITERARY INTELLIGENCE.

- The high price of new books in England puts it out of the power of the great middle classes to purchase them, and the Circulating Librarl system has consequently grown up to gigantic proportions. One ests" blishment of the kind, that of Mr. Mudie, has come to be a power in the Commonwealth of Literature, and on the number of copies puicha by him depends the success of many a new book. This will be appar when we state that he announces that 2,500 copies of "Adam Bede" in circulation among his customers. He gives the following statist of his operati ns during the year from January, 1858: Volumes circir lated-History and Biography, 56,742; Travels and Adventurea, 25,552 Fiction, $87,78 \cdot)$; Miscellaneous, including Science, Religion, Review $\& c ., 46,150 ; n$ aking a grand total of 316,044 volumes. The machi by which this is accomplished is all systematically artanged.
- In the obituary notices of the late Lord Macaulay, it was stated he left no family behind him. It is a strange coincidence that the g number of men noted for mechanical genius, like many of those in literature, science and government in Great Britain, have children to perpetuate their names. Shakespeare, Milton, Bacon, N Harvey, Pope, Mansfield, Pitt, Fox, Gray, Oowper, Collins, Th Goldsmith, Gay, Congreve, Humo, Bishop, Butler, Locke, Hobbs, A Adam Smith, Bentham, Davy, Sir Joshua Reynolds, Flaxman, Sir mas Lawrence, Robert Stephenson, and others well known to British annals, have no lineal representatives now living.-U. C. Jout of Education.


## gCibntiplo mitelloznce.

- We fuel much pleasure in inforning our readers, on the authority of the London Guardian, that Sir War. Hooker, the distinguished botanist, has been in communication with the Duke of Newcastle for some time with respect to the publication of a maguificent work, at tho Government expenso-viz.-A complete Flora of the British Colonies-Dr. Gresbach of the University of Dettingen, was appointed for the West lodies some time since, and the first number of his work has just been issued, and Sir William Hooker has determined to tako Canada as his share of the fietd of inquiry. He and his staf will probably arrive here in the beginning of the spring. The Botany of tho Himalayng i.g Sir William, is ove of the most valunble aduitions to botanical liw. ature that has been made for years.-U. C. Journal of Education.
- Mr. J. M. Lemoine, of Quobec, publishes, in the Canadien, a series of vers interesting articles on Canadian ornithology. They will also be found in our Journal de l'Instruction Publique.
- A ccrrespondent of the Nex-Brunsoicker mentions a remarkable fact, which, it would appear, science has not jet accounted for. That part of the ice on the shores of the Gulf of St. Lawrence, which lies over ofster beds, is never so solid as at other places. It eren occurs very frequently, that large spots over the oyster beds remain unfrozen, causing nany accidents. Lately a gentleman rho was travelling on the ice near to the const, lost his horse nad sleigh, and had himself a very narrow escape, on mecting unexpectedly in the night with one of those oyster ponds. The fact has ever been well known to the fishermen, who take adrantage of it in their trade.
-The folloving is a proeess for restoring writing effaced by sea water, which has been employed with much success by 3rr. Alfred Sinee, of the Bank of England, in deciphering letters damaged by the accident Thich had happened to the Northman on her vogage from Irdia:
The letter is moistened with isflrocbloric acid, after which a soft brash dipped in a saturated solution of yellors prussiate of potash is lightly passed orer it, and the writing a ppears of a benutiful blue colour, orn to the formation of prussian blue. The solution of the yellor prossiate of potash should be added in excess. The letter is dried by pressing it between the folds of blotting paper, and afterwards holding it before the fire. The document may be presered by coating it with isinglass.
When the letter is much damaged, the operation requires exceeding care and nicety. In such a case it would be rell to take a photographic cony, prerions to submitting the paper to the action of the chemicals.
The result of the operation is the consequence of a chemical action. yost kinds of ink containiron in solution; sca water containing oxides haring greater affinity for the acids combined with the iron, unite with these scids and the oxide of iron is left in the fibres of the paper. Mydrochloric acid being pourcd on the paper, immediatels unites rith the oride of iron, and forras a hydrochlorate of iron; this on the addition of the sellow prussiate of potasi, is decomposed, the hydrochloric acid freed, snd an insolable cyanoferrure of potassium (prussian blua) precipitated. The bydrochloric acid is employed to place the oxide of iron in a state proper to be acted upon by tho yellow prussiate of notash, which has no effect upon the uncombined oxide.


## Statistical. INTELLIGENGE.

-The official returns of the emigration from Livernool during the jear just closed bave now been completed at the government office; and although, on comparisou with the yeary receding, the numbers in the aggrexate do not nppear to vary very materially, the rariation in the tide of emigration to the different countrics has been most marked. The total number of passengers, "under tho act," who have taken their departore from the Merscy during the twelre months just elapsed bave nambered (inclusire of cabin passengers) 68,035, against 70,466 in 1858 , being a decrense of 2,441. During the past year, to the United States, 168 ships, of 286,360 tons, sailed, with 1,561 cabin and 47,137 stcorage passengers, "under the act," against, in 1858, 107 ships, of $256,550^{\circ}$ tons, Fith 1,446 cabin and 43,180 stecrage passengers, being a falling of of about 300 . In "short ships," not "under the act," or submitted to gorcrnment inspection, 143 ressels sailed in 1859 , with 5,203 cabin and 2,283 stecrago passengers. These "short ships" include all travelers by tio Cunard, Canadian, and African mail steamers, \&c. To Canada the departures numbered only three vessels "under the act," of 2,859 tons, with 5.44 stcerago passengers, rgainst, in 1858,7 ships, of 8,027 tons, with 12 cabin and 1,934 steerage passengers. Howerer, in 1859, "short ships" carried to alie Canadian provinces 1,958 cabin and 2,118 stecrage passengers. To the Ausiratian colonics the greatcst falling of lias been crbibited, scarccis mone than tro-thirds the number of emigrants having left tho Nersey doring the past ycar. Fifts-two ships, of 72,189 tons, sailcd to Victoria, with 503 cabin and 9,883 strcrage passengers, against, in 1858,66 ships, of 90,885 tons, with 690 cabin and 15,603 stcerage passengers. To Melbourne 18 "short ships" took their departure, with 32 cabin and 333 stecrage passengers. To Nierr South Wales 9 ships, of 10,154 tons sailed, with 4 cabin nad 3,476 stecrage passengers-the great pronortion being gorernment emigrants, dispatched by the Colonial Land and Emigration Commissioners-sgainst 9 ressels, of $9,5 \% 9$
tons, with a like number of cabin and 3,455 stecrage passengers, beng a slight improvement orer 1858. Only 8 cabin passengers wero convered to New South Wales in "short ships" during the year. To Soutls Australin 3 ships, of 3,443 tons, were engaged in tho conreyance of 1,052 government emigrants, against, in 1858,5 ressels, of 5,581 tuns, with 1,991 passengers, also at the expense of the Emigration Commissioners. None carried out in "short ships." A teature which distinguishes last year's Liverpoul emigration has been the dispateh of 6 vessels, ol G,704 tons, which carried out 104 cabin and 1,317 steerng' passengers-the same number of sailings with passengers direct beng heretofore unheard of. To the Gane of Good Hope the departures conthprised 4 vessels, of 2,860 tong, with 7 cabin and 993 steerage passengers, agamst, in 1858 , 6 shaps, of 5,420 tons, with 10 cabin and 2,059 steerage passengers-the latter in both years being sent out at the colonial expense-the selections of the commissioner in London, the llon. William Field; 10 cabin paesengers were, in addition, "short shipped" to the Cane of Good Hope. To the East Indies 3 ships "under the act" were dispatched during the second half of the past year. With 1,544 steerage passengers, all soldiers' wives and children, (which can hardly be classed as passengers,) and 13 " short ships" sailed, with 36 cabin and 20 steerage passengers; the unfortunate Accrington, which has put into the Brazils, with 05 deaths among the paesengers, and captain and mate poisoned, was one of the former class. In addition to the foregoing, the following "short ships "have stiled during the year:-To Arurica, 35 ships, with 230 cabin and 38 stcerage passengers; to Africa, 13 mail steamships carried 296 cabin nassengers; to the West Indies, 5 vessels, with 39 cabin passengers; to New llunswick, 3 ships, with 31 cabin and 3 stecrage passengers; to Nora Scotia, 1 calin and 4 stcerage paseengers; to Prince Edvard Island, 9 cabin passengers; and to China, 4 cabin passengers; uaking a grand totul, "under the act" and "not under the act," of 10,103 cabin and 71,65 ? steerage-81,755 passengers, or an arerage of nearly 7,000 souls per month sailing from liverpool. With the exception of the melancholy losees of the Royal Charter, Pomona, Indian, \&c., there have beca no features calling for particular notice in glancing at the emigration for the year, which closes, as usual at this season, at almost its dullest point. -Hunt's Merchants' Afaga=ine.
-The Exports of Canada in 1859 were as follows:-
From Sca-norts
\$9,785,551
Inland ports, ss reported..........................................
13,316,827
Estimated amount of exports not reported at island ports..
1,60.1,603
$524,760,981$
Inclusire of ships built at Quebec in 1859-12,799 tons at $\$ 34$ per ton, $\$ 421,566$.
The following is a comparative table:-

| 1850 | Exports. \$32,047,017 | Imports. S43,58:387 | Total. $575,631,404$ |
| :---: | :---: | :---: | :---: |
| 1857. | 27,006,624 | 39,430,598 | C6,437,222 |
| 1858. | 23,472,609 | 20,078,527 | 52,551,130 |
| 1859. | 2, $2,76,981$ | 33,505,161 | 58,322,142 |
| The ralue of ships built at Quebec is that which shows the principal |  |  |  |
| decrea |  |  |  |
| 1856..................... . ... $\$ 1,213,078$ |  |  |  |
| 1857. |  |  |  |
| 1855. |  | 10 (18,591 to | Sto yer ton.) |
| 1859. |  | 佼 (12,399 10 | S34 per ton.) |

- Lower Canada possesses in the Rirer and Gulf of St. I, awrence an extent of coast of 1,000 iniles, where the Cod, Iferring, Mackerel, Salmon, and other fisheries are carricd on successfully.

Whale fishing is also carried on by vessels fitted out from the Port of Gaspe. Average season value of whale oil is $\$ 27,000$.
Tue Cod fishing is carricd on along the whole coast of Canada; the Merring fishing principally at the Magdalen Islands, in the Bay of Chalenr, and on the coast of Labrador ; the Nackerel fishing at the Jiagdalen Islands, along the cosst of Gaspé, and in the lomer part of the River St. Lamrance.

There are abore 70 Salmon Rivers in Lower Canada, which the Gorcrnment are now fosicring with a vier to enhance the commerce of this raluable fish. The latest annual catch is 3,750 barrels. The Bay of Chaleur alone formerly exported 10,000 barrels.

Number of bonts belonging to Canada fisbing on the Canadian shores, from 1,200 to 1,500 .

Nearly 100 Canadian ressels are emploged in the fisberies of Canada.
Number of fishing ressels from Nora Scotia and the other Lower Provinces fisting on our shores, from 25010300.

Number of fishing ressels from the Enited States frequenting our shores, principally for the Cod and Uackerel fishang, from 200 to 300.
Quantity of dried add smoked fish ycarls exported from
Canada.
1'22,803 qu'ls.
Quantity of pickicd fish cxportcd from Canada....................................... bbls.
Consumed in Cannda, nbore kinds .... ............... 75,000 quils.
Quantity of fish oils exported from Canada. ............... $100,218 \mathrm{gal}$ 's
Number of Seal Skins do do ................. 13,000
Qanntity of Salmon taken in the Rirers of Canadi....... 3, 500 bhls.
Quantity of Trout and Halibut taken in canada........... 900 bbls.
Total Gsh productions valued at.
\$1,026,288.

Note.-The take by vessels other than Canadian is not computed in this table.

Square and manufactured timber is exported m harge quantities from the different ports of the coust of Gaspe. There is also found an abundanco of wood of tho best quality for ship-building purpoges. The lands in the district of Gaspe are composed of a light but fertile soil, producing all kinds of grain and veretables There are millons of aces of those lands which are still in the whld state, and covered by beantiful porests.

Tho population of the District of Gasper nod of the north const of the River and Gulf of St. Lawrence is 32,000 souls.

The District of Gaspe alone could contann und support a population of more than 100,000.

The Inland Lakes and Rivers abound in fish.
The Fishuries in Canada are as yet in a state of infancy.
The merchantablo fish products derived from the Lakes and Rivers from Upper Oanada conslst chicfly of White-F tsh, Saimon, SalmouTrout, Herring, Lake-Trout, Speckled-Trout, Sturgeon, Pickerel, Bass, Vuscalonge, \&c. Inferior kinds also abound in the smaller lakes, tributarice, and streams.

The extensive area, great depth, clear cold waters, abundant fecdiug banks, shoals and sparning grounds, of the principal Upper Canadian Lakes, render the fish found therein numerous, of good quality, and of large size.

Tho annual take of the different species of fish is carefully cstimatod at $\$ 380,000$ value.
This produce is variously disposed of by export, fresh and cured, in the neighbouring United States, snd tor domestic sales and consumption.

Ready markets are found both at home and abroad for any seasonablo catch.

Tracts of cultivable land bordering on the great Lakes are still disyosable for settlement.- Ilontreal Gazettc.

- A correspondent of the N. Y. Tincs under date of February 1st, writes from Quebec as follows:

T'bo Legislature of Cannda pussed a Fishery Act, abuat two years since, for the regulation, protection, and encouragement of the inland as well as tho Gulf fisheries, and tro Superintendents of Fivheries were sppointed-one for Cpper one for Lower Canada, each with a staff of suitable orcrsecrs, \&c. The Cpper Canadian official has made but little progress in his duties; the Lower Canadian a great deal. But I wish, in this present letter, uot tu treat of the subject of fisheries generally; so much as to describe tine method of artificially breediug salmon adopted by the Loover Canada Sujerintendeat, Richard Nettle, Esq., of Quebec.
In a large room, well rentilated ta summer and sufficiently warmed in rinter, is a tank, about eught feet by welve, dirided into two main compartments-one deep, the other shallow. The latter is ngain subdivided into three divisious of different deprths, from six inches to about one. Water from the city pipes-Which is supplied from Lake St. Charles, up in the mountains, cighteen miles avraj-is kept constantly flowiyg into this tank, rith the proper contrivances for preventing any sudden stoppage of the supply. The shallore parts of this, the ovarium, are floored with sand and stones, in imitation of a river's bed. The diep part has only a fer pieces of rock at the bottom.

Salmon spawn in September, and nt that time the female fishare taken with nets from the neighbourhood of their spawning-beds. A very gentle pressure makes them shed their ova into $\Omega$ fail to the number of perbapg 20,000 each, and a single malo fish then suffices for the impreganation of a pailful of sparn, which is then very carefully brought to the orarium and placed in tho shallow compartments atuore described.

When first taken, the spawn is of a yellow colour, cach little egg being of tho size of a small jea, and semi-transparent. Close obserration detects a little reddish spot on one part of tho orum. In a short time, this spot, which is where the impregantion occurred, groms larger and deeper in colour, while the ovum gets more and more opaque. In December, the rudimentary fish can be seen, curled up rithin the skin of the egg. In January, the black spots become risible-the eyes of the embryo. Towards the cnd of February, the littlo fish bursts from its confinement. Last year, the first of the sparn completed these transformations in 113 days.

When the salmon thus make their appearance, they are alunost like smell tadpoles, or bullheads, in form, and lic quiet among the stones for a fer dajs until they become more shapely. Then they become livels, and rush about the tank bristly A fly, thrown unon the water, briogs a host of them up to the surface, eager for their pricy. Thefg grow but littlo for sereral montis, none becoming longer than one's finger. But if these little creatures are then put into a river, they will make lheir may downwards into the sea, grow with surprising rapidity in salt water, and return to the same riper next year weighing from four to seren pounds.
The adrantages of breeding ealmon artificially are sereral, but it is sufficient to mention one or two. When the sparrn is denosited in the rirers, it may remain barren. If if escapes hiss danger, the rout and other fish eagerly seek for it, and thoy erch say that large trout will fullow the fenald salmoll at aparaing time in expectation of a meal. If the eggs do, in time, give forth small fry, these have to run the gauntlet of innumerable perils before they reach the sea nnd grom to a sefficient size to be careless of other cnemies than man or the salmon-enting otter. Thus, perbsps 99 per cent, of the spo 2 -certainly 90 -is destrosed.

By artificially breeding, that quantity lires. Mr. Nottle's experimental tank now contains about 5,000 spawn, and all uro in a forward state.

Nor is fish-breeding likely to remain a mere experiment in Oanada. Three large lakes, Megantic, St. Francis and Louisa, liave just boen lensed for nine years to a Mr DeVourtenay, a French gentleman, who lived a long time in Itaiy, and vas President of the Fishery Company of the Lago Naggiore. Mr. DeC. will bring hither 80 mo of his old Italian employées, spend soveral thousand dollars in erecting and managing apparames for artificially propagating salmon in one lake, sturgeon in another, and somo other fish in the third, and, when they aro well gromn, catch, and send them to New York, Boaton, Montreal, \&c., fresh, and to the West Indies, Brazil, \&c., warreled.

Another stop has been accomplished, during the year just expired, towards the derelopment of the mino of riches our waters may be made to afford. (1) Oaptain Fortia, the commander of a revenue cutter, La Canadienne, was instructed to lay down small seed-oysters, obtained at Caraquette, at different places in tho Gulf of St. Lavrence. He has done so. Next ycar the operation will be renowel, to seo how far up the grent river oyster beds can be formed. It is contemplated to make an experiment at the mouth of the Saguenay Rifer, and thus to add another attraction to the many which cluster around that delightful spot.

- Dinn shews his courage in many ways. He rushes to tho field of battle to meet death, he hazards his life in a frail bark on a tempestuous ocean; as a atudent ho passes his days in an obscure garret, rorking out ine solution of some deep problem; the adrocate of some great and noblo work we behold him braving tho prejudices, tho suspjcions and the calumnies of those around bin. But what shall we say, how can we characterize the courage of the man who indulges in the adulterated liquors of this country; without the consolation even of their procuring him an casy mode of death. Dr. Hiram Cos, inspector in Cincinnati, happeniug to be in a tavern of low standing, was eyo witness of the following fuct ; two men called for some brandy, and while swallowing it the tears literally rolled domn their cheoks. Being curious to know the composition of a compound which could produce so powerfal an effect, Dr. Cox analysed the beverage and found it to contain ouly 17 parts of alcohol, instcad of 40 , tho proper proportion; the other 83 parts being made up of sulphuric acid, cayenve pepper, caustic, potassa and strychnine. A pint of this mixture would be sufficient to kill the most determined toper Dr. Cox states in bis report, that of 400 lunatics ho had cxamined, he found at least 250 whose slicnation was due to excessive drinking. Among these ho observed a jouth of seventeen rhose condition was the result of a single fit of intorication produced by adulterated liquors. Dr. Cox has inspected 700 tarerns of various classes and found that the nine-tenths of the liquor therein retailed mero adulicrated. He says, that to his omn knomledgo nincteen soung men of respectable families hat been lilled in the space of tbree months, by the use of these poisons. They are equally fatal to persons of a more adranced age, who use them even in moderation; in less than three months delirium tremens opens their tomb.-Courrier des Etats-Unis.
(1) Mr. Fortin acts as Commissioner of the Gosernment for the protection of the fisheries and tho preservation of peace in the sercral parts of the Gulf of St. Lawrence. He had recommended mone of his raluable yearly reports the operations mhich be has been allowed to mako for the formation of oyster beds. (Ed. J. of E.)


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