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## EDUCATIONAL.

## OUTLINE OF THIS DEPARTMENT.

Trueris are tro aspects iis which. almost every subject may be regarded, tho theoretical and? the practical; and these are the aspects in which, in the subsequent pages of this Jourual, it is proposerfito consider the vasily imporiant work of tho Education of the young. And surely, we ned senrecly remark, thint in jising the term thsory ive do not mean it to be understooil in tho bad sense in which it is sometimes liken, as if ive were dealing in the visionary phantoms of a feverish imagination, or in the speculative dreams of the closet; but simply as pointing out the scrience of education, as distinguished from the art,-ilie principle from the practica. Neither, we trust, need wo say, that in thus alletting a separale heading to these ternis, and discussing then accordingly, they can or ought to be civoreed: On the contrary, we hold thint they mutuilly illustrate one anotlicr, and stand in the sime relationship:to ench other as the stream of water does to the fountain, or the branch of $\Omega$ free to the trunk. Our main oliject in considering them apart is, if poissible, to rid them of all ambiguity, and to impart greater clearness and defuiteness to our thoughits.
Undor the theory then, we shall embrace all that appertnins: to the uature, the philosophy, the essifine of education; whatover, in ehort, falls under the legitimato answer to the gues-
tion, What is Education? This will naturally lend us.jnto a wide field of observation, and involvo the consideration of animal physiology, of intelleciual mad mural philosophy, as constituting alike the basis and tho rationale of tho cducation of the body; tintelfect and conscienco, in all theoir intrinsio worth, reciprocal dependence, and mutual relationship.I'his too mny occasionally conduct us to controversinl ground ; and whiftr wo shall not shrink from a candid avowal of our vieiva and sentimenta, we shall, wo.trust, be enabled to do so in the spirit of moleration, equally romoved from selfish dogmatism, on the one hand, and from bitter ncrimony on tho otlier, and desiring to bring all to tho bar of culightencileta. son, of sound prinsiple, rnd of tested practical experiduce.
Under the latter head-the practice, we slanll havo an cqually broad feld to tmael over. Here we shall have occasion to diocuss all thate belougs to the modus ngerpathi of cilun
 tho How, or the Mode, we finll consider such subjects as these;-school premises, the organization mà the governnent of schools, the various systruss of educaticn, ini so far as their inner-lifo is concerned, the branches oflciming in the mord elementary and in the more ailvanced scliools, and their practicnlapplication, so that the system ndopted slinil, in its ossintinl features, chameterize and porvade the whole, from, the Alphabiet up to the highest departments in Classica and Malhematiss: Onder the Who, will fall all that belongs to
living Agent, the Schoolmaster-hin oflice, his fualifientions, nuld the means of obthining them; his dution-lo himself, to his seluhart and totheir parente, to his prolec:on, or his fullow Tenchers, to the 'lingeces or Committee of Management; his dilliculties mul his rewnils. Under tho Whereviliml, will como tho whole maller of the supprot of public elucation, tho erection mate prexervation of echool bousea, tho providing of tha repuisite Fiurnilure, 'rext leooks nud $A$ plumitus, ns well ns the competent remunemition of tho liencher. Amidhere lwo distince gucalions will present themselves to nur notice, frest, Who is the prity ou shom alould devolve tho reaponsibility of proviling this supprort? Is it tho paremes int thuer aseociatted connecity, or is it the diftierent temondinations of professing Christians, as such, or is it tho l'ruvince, or State, or Nation, as such? Amentor this question has been deciled, noother will maturnly arise,- Dow is tho alequate memes to he mised? Is it by voluntary contributions, or hy direct or intdirect taxation or by a combination of both? Theso arodedeply inportaul questions, mal conslitule, in some respect at least, that department or Eilucation that more properly belongs to tho Stateaman and Iecrinhtior. 'Itho other subjects miverted to more direetly appertuin to tho educationist in his professiomal eqparity. Womhl that this line of demarention wero moro alugly eyed loy tho ono and the other! Then would there le less confusion, leas clashing of visus in the discussion of this vastly extensivo kulject. And whilst ench proserved dis legitimato sphere, tho alsancement of the whole would bu largely subserved.

Such is a brief summary of this tepartment. It is one of our rudimental rules in equcation, to present first of all a mero outline of the suljeces; nuil it slanll benour nim at least, whatover may bo our natainment, to $p^{\text {ractiace as wo meach. }}$

## 1.--THEORY OF EDUCATION.

## WHAT IS RDUCATION?

This is one of tha most momentons questions, whether we regurd it in itself or in its results. It involves the whule philesophy of our being. It lecply aftects tha futurt desting of man, tho whole of his ctermal weal or woe. Thy Church mad the State are alike deprendent on its iswue. 'Talk of proligies! 'To us, one of the grealest is the compmatively small amome of ultention and interest which this question receives; nud, ntill more, that, in this the 19il Century of the Christian em, there shouhl obtain such an immenso diversity of opinion regrarling it, that the principles and have, the nature and design, the nim and end of the sulhect-matter of elluction should still remain so unsettled and so ill-delined.

Much of this diversity of view, of this vague indeliniteness of opinion, nas well as many of the evils that have flowed therefrou migh, in our npprehension, have been olviated nad nverted, had those avo engaged in its discussion given more heed to the prinfary signification of the term itself. Now every tyro in Latin knows that the worl education has for its root the verb duco, talead or draw, for its prefle e nit of aud for its anix ion the act of doing. Thus, according to its derivation, at signifies the act of leading or drawing out. Of what? Uf all the orgme, the faculties and sensibilities of our mature. That mature is compound, made up of a body; an intellect, nud a conscience; and the term education, then, when applied to the yomg and taken in its frimary acceptation just means tho
traving out, tha tufolding, the dereloping, the sirmingthening, by tha applintice of legitimate means, of all the parts of their cottpound nature, of their phyaical, intellectual, and moml coustitution. We eny all the parte, for we hold it to bo utterly beyond tho prower of the thost akilful and minstaking Tencher to do justices to the eduation of tha mo of lhese, withernt ems bracing the othuss: to improve and strengetien tho intellectunl, if thu plasionl or momil is neglected ; to purify null clovato the momil, if both tha fhysiend and intellectual are umattended to. Llieso component parts of our malure aro all insod purnbly united ly tho sutter of user being. 'they stand in intissoluble relntionship, in cutire subloserviency thu otto to tha other; and if man is to besexhibited in all tho symmetriont benuty and in all tho perfection and glory of his mature, they must all bo cultivnted nude educated according to their intrinsio and relative imprance. Wa riso a step higher and mainthin, that stech is tho eympathy perrnding theso parta that, in orler to giva fall development to ono nud all, they hinust los culled into exercise at ono and tho sane time ;-otho Cody, thrat the intelleet may he nrounch and interested and vricted, and the consciences struggliened and assisted in its fnining:--اho incellect, that a broymey and elagticity may bo impartesl to tho bealy, and ans enlighenentment, clevation, med direction to the amo ral sense ;-mad the conacience, that nat expmasion and enlargement bo given to all the ficulties of ilio intellect mat at powerful, invigorating impulse to all the organs of the borly. Singlo out any one of these nul cullivate it to the highest possible degree, nad you do no at tha expense and to the gufechloment of all the others. Cultivate the one nal then the other, at certain inkervals, nud you thereby do what you can to pervert the artargements of the infinitely wiso and gracions Creo ator, you mar and farnish tho beauty of theso armigementa, and so fire at least unfit these powers, both in their individual and collective capnecity, for the accomplishment of their high num emobling destination.
llut again cach of these parts of our compoand nature lans its upuropriate ingredients. The bexly has its organs, or systems of orguss,--the nutritive, supporting, cutaucous, muscular amil nervous. 'lise intellect too, though one nud imbivisible, has severnl ways of manifesting itself, that is, it possesses certain powers of acting, which aro hence designated faculties. These, necorting to the elasiticution of ine Wayland, are the faculties of l'erception, Consciousuess, Original Surgostion, Alostraction, Memory, Reasoniag, Imagination, and, as belonging to tho whole, 'liste. The conscience in like manaer has its own ingredients or modes of acting, viz.-tho discriminative, the itupulsive, and the rmotiomal.

These all exist in tho yourg, though in a state of embryo, and in grentest possible diversity. In some, the body is more healthful and vigorous, in others, the intellect, and in others the conscience. In some, one sel or chass of bodily organs is more robust and nsore capable of culurance, or some features of the comatenance are more prominent, or one intellectual ficulty or chass of ficulties is more filly developed, or one ingredtent of conscience is vastly more sensitivennd tender, then in others. But notwithstanling this great diversity of matural gints and endowments, they all, generally, exist in the young, whether in atate of germination, or in more or less sensiblo development; and whilst it is the duty of the teacher to labor for the improvement of all, it is equally his duty to adapt his instrumentality to this very diversity, that the design of
the Creator in this armangement, in so far as human ngency is concencel, may be filly accomplished.
lhit over and abovo all this thero are grand genemal eprels of development in the mental, oren as therenre in tho physical constitution of the young; that in, their powers becomodeveloped consecutively. 'Thero is what mag boenlled the pereeptivo cproch, or that period of their hiztory when they are maine ly dependent on their externnl scases and this may enbrace tho period of chillhood till about 7 or 8 . Then there is the recollectiva eproch, or that slage when they evince a greater susecpitibility of memory, when this faculty takes as it wero the lend, which may rull fiom about 8 to 11. Then ngnin there is thestage when tho muderstanding becomes conspicuous, nud this genernlly is from about 11 to 13 or 14,-and, last of nll, there is the rellectivo or reusoning epoch-lhat higheat stago of derelopment, in which renson subjectsto her lawn all the ofher prowers, from about 13 or 14 onwanis. Of course under ench of these eprochs there are various modifieations and sublivistouss and thero are aloo, is in every general rule, exceptional cases, when tho lines of demarention aro less bromily drawn, less conspicuously displayed. Hut bo this as it may, there is no denging the fact, that hicro is an orler in which cormin powers or faculties nequire the useendancy, just as there is an order in the bursting of the foliage on the different branches of a frec. And this etate of things too, tho D'encher must tre prepared to meet,-to this he must ndapt himself, whether has is carrying on his operntions in a graded or non.grnded school cstablishment.

And now it may be naked, How is this compound nature of man, with all its diversifich powers nud faculices; nad eporhs of development, to be drawn oul, to bo traned, to be educnted? Wo unhesitatiugly reply, by exercise-nppropriate and persevering exercise. The knowledge, or the excmplitisation of what ought to be, however sound and correct, will not suffied there must be the use, the personal and practienl use of all tho powers and ficulties, and that continued till proficiency is attained. And here arises another question of inflnitely greater moment,-Whut is to be done, what method - pursuch, what menus resortel to, so as most extensively and elncienty to secure this exercise? This is the grand diffientty, emphatically the educational problem to be solved. This is the arema on which all entightencel chucationists ought to meet nad settlo their differences. In so far ns the exercise of the body or conscience is concerned, thero is little or no diticulty, If a bone or muscle is to be strengthened, it musi be used. If the conscience is to be remdered encreasingly tender and sensitive, its dictates must be listened to, and ita requirements obeyed ; nul this must be done, not once or twice, but continuously, nye, and until the end is necomplished. But it is otherwise, in so far as tho intellectual ficulties are concernet. If these aro ouly strengthened by use-and this we know to be the ease, -what are the employments or the pursuits required? what is to be done so as to sacure their being exercised, both separately and conjointly? It will not do to any, in reply to this question, 'Teach 'he children the various branches of lenming, and they cannot h.il to bo provided with ample materials for the exercise of all the intellectunl faculties.' All this may bo done, and much valuable information imparted, and yet the faculties themselves may remain in a slate of dormancy, of utter inactivity. It is not the things taught, but the methol of teaching them, that is to secure the exercise required. And what is that method? It consists of two things
-first, the foorl congenial to the faculty to bo exercised must be siministered, that is, the subject best filted to the pinaticular power must bo presenten. This is enaily done. Without going into particulars, null just looking at tho different equochs of intellectund development, it is clear that the frod most congeninl to tho perecptive fuenities, is the olyieda belonging to tho fire senses;-to the recollective ficultic, langungo ;-and to the reflective, Mnthematies and tho like. Ilus, secondly, how in this foom to he administered, so that it may the ligested?Itow is the suliject to bo presentent, that the faculty itselfmny bo exercisel? Jly thu 'Tencher'a deacending on $n$ lavel with his scholars; ly his bormowing images num illustmbions from oljects neml things with which they are fumiline; and hy this menne, lending them on from the ensy to the difficult, from tho simplo to the complex, from the known to tho unknown, from tha visibla to the invisible. And tho meelnnical process by which his important principle is to to vrought, is that of question and ellipees,--ilis former leving intented to nseertmin the nmount of knowledge prosesesed, or to guile the teacher in imparting tho knowledge that may be reguired ; nuditho hatter, to allow tho scholars to uso their respectivo faculties, flling un, enpplying what is numaing, aje mal matil the goal is reached, the principlo or truth arrived at, and that too by tho exercise of their own taculties, that they may be fully strengthenend and developed, and rendered capable of yet higher nad nobler achiuvements. Anl this process is carricd on with tho Whote elass or school simultancously. Tho guestion is ndilressel to all engagel, and the scholar or scholars whose entowments or attrimments may run in this chnunel, will give tho reply, or supply the ellipsist And what is dono that all may reccivo the bencft of this diversity of natural gins or of seholarly allaimment? Tho answer given is converted into a question, and thrown back on the whole chass or seliool, so that what wre but $n$ few moments lefore the property of one or a few becomes the property of all. And this method, whilst, by the sympathy of numbere, it excites and stimulates tho thinking prowers of all, meets in nicest nulnptation tho iatellectual endowments and attainments of each.

And now it may the asked, How is this methoi to be npplical to the difierent eprochs of intellectual itevelupnemt? IIow is the same subject to be presented to the children of different ages, that the whole schoul may be exercised simultatevimly? lby the presentation of an oulline. To the younger scholars :he faintest outine, the mere skeleton is given. To the moro nilvancelt, his outiso is compamatively filled up, and so onward, just as tho schölars progress in knowledge, in mnturity of apprehension, and in strength of intellect, so do lhey receiva more minuteness of detail, till at length the sulyiect is presentcd to them in all its meet proportions, sud in all its antive mag. nitude.

Such is a brief sketch of our naswer to the question at the heal of this article,-an answer which we shall claburate mul itlustrate in subsequent numbers. Our objec: $\therefore$, po ben to bring before our renders, in a comected form, a hind of as nupsis of mar views on this important subject, so that whell we take up the points in detail, their relationshig, and dependence may be the more realily perceived. Amad nun, neal no nay in cunclusinn, that if these views are somad and correct, then wrily celn ation is something more than teaching or instruction, sumethact more ennobling than the mere preparation or qualifiation fur any particular Dusiness, or trade, or prufession, sumblling inoro extensive than the cultivation of any one power or faculty, or
clase of faculties. Andfurtiemore, wo hink thant it must bo apparem to all, that the recipients of tho celncation thas brictly Jelinentent, linve made nat acyuirrment infinitely more valuable than tho prese ession of all knowledge and of all richen, even lime nequirement of educating themedies; nal therely not only fitted and prepared for the right diselingre of the chaties of time, but, bg the blessing of the Most Itigh, for the emploge ments nad exerciess of allessed immurtality. Anelsurely the infervence from all this is phain mill pulpable, that all who aro engageal in extending the houmaries of his cilucation, whenther vecupsing a mure or leas promincut pasition, are in reslity the higheai hemefretora of the speciea, ame moply entilled to all reapect and humour.

## II.-PRACTICE OF EDUCATION. SCHOOL, DU1,AHSLES,-CHOOSING A SITL;,

Sou trmbeanan can de justice to himelf or to his cmployers, without ncemmonlious workahop, mad suituble tools; mul so is It with the adocohmater. Ile may be diny qualified, beth in print of scholarxhip and professional skill, nut he may bo bent on curry ing ont the most improved aystem of eduention, but if lie poseess neither propur sehowh-room necommodation, nor tho requivite furniture, npparatue, amil text books, he labourn under the most grovious disalvantages ; he is not in a fair position to prove either his own competenes; ar the exechlence of his sjstem. It is on this account tre introluce this sulyect thus early; that, in the practical depurtment, we give it precedenee to all diacussions on mallers of school orgatazation, govermanent, ice. It is much to bo regretted, that in older countries, where antiomal systems of ciflucation hase existed for cemmies, this subject has not get reweived lint measure of attention it ought. In tho Ameriem Repmblie it is far otherwise. There is not pershaps at this moment, on the lice of the earth, it comary where the external manhinery of education, me:aning by this every thing appertaining to School-houses, Furniture, Apparalus, S:alaries of Tenchers, sec, is in a condition of greater perfection than in the United States. There may, in the view of not in few, he a want of thoronghass in the inner-work of the lidamational operations of that mation, hat there is no surh thing in the outer; and it were well for Teacher mol Scholara, dial more copy anter their exana. ple, in this hatter respect. We feel persumded that this will cre long be the else. Ant where may we expect this exnmphe to opernte more nowerfally than intho miljoining litith provinces: Atready is it begining to exert no small amomet of inlluence. In Cnuma, New l3rmawick, and Sova Scotia there ary ecient sehmols constructed aud furmished afier the Americun fardion. Leet us then press en in this direction, ase sured that there is the closeet and most indissoluble relationship subsisting letween the outer and inner movements of the cduentional macline.

Nutr the first thing to be attended to in the crection of a Sihwelhumee, is the stlection of a suitable site, and here, oftenthmes, the move eggrogions bimmers are committed. Ilow often, fur eamajle, do ne find the Scheob-honse located on the sile of the Highway, or on an acme angle where two roads meet, or un a amall trimugh, bonmided on all silles by public roads. Lfow unen, again, do we find it in a low, swampy, glowny silmation, with a slygerish strean of water clese beside it, or completely alut in by the sursounting forest, or, it may

In, in the inmedinto neighbourhoml of aome blacksmiltis shop, or of sorine anir mill. And in all these situntions how oflen is the Sehool-house vilhout one inch of ground nttashed, so that the chilitren in their amasemenis mave cither repnir to the problio roals or the miljoining fields; and all this may occur in localities where tho Innel is not renlly worth more than n few dollare an acre. Amb in villages or townsmatters, in this rese pect, are ollentimes lifilo beller, if not worse. llow ofien in wo seo tho most eligible nites in tho enburis, nund yet the Schomb-honso planted in tho tery centro of the villages or towns, parnlel with tho etrect, will nought hat tho moxt public thoroughfara for a play ground. Disgutes we do oecnasiome ly hear of on this point ; but these, unfortumituly, have no collsicetion with tho hemidhfulness or beanty of the site, but with ita proximity to, or disinnee frome, hits or thant ivelling or farmi house. How difierent tho prolicy pursued int loenting a Chureh, or a Court Ileuse, or nu Asylum, or a diall Ilere we find one vicing with tho oller in the selection of tho most suituble, the most commanling situntion. Ant yet in not tho cligitili15: of a site for a sehool of far greater injortance than any of these publicedifices.

What then, it will be naked, ought to guido tho inhenhitants of $a$ district in the selection of $a$ sitc for a xehool? 'Tho first proint to bo determined, if it is in a purcly ruml district, is its centrality, that is, where tho district is pretty regolarly setHed. In a country like this, no district should exiend begond three miles symure, making the journey for the scholars not more than one num a lintf miles, or nt :nost two miles. The next point is the locality iteclf, nuxd this should be, if possible, on a mandl eqpinence, with sombiem nspect, a pleasum prospeet, nad, in overy reapect, healhiful. And to every Schooldiouso in the comery there ought to be attached, if prossible, nutacre of gromal, or at all ovents half an acre, which ought to bo well fenced round. This ground may be diviled into three sections, one for the buildings, nuother for the play-ground, nad moolier for sinubbery or small parterres. We doubt not timat some may bo inelined to suile at anch a proposal, nud eapecially at tha iden of a play-ground, with an enclosure, when tho children may roam ut will throughout tho whole surrounding formst. Aud so they might, with some feasibility, were there no other ohject contemplated, thanthe promotion of the physient health of the scholars. 'lhis ent is no doubt served, and who will deny its importance, cither in itself, or in its relationship to intellectunl ndrancement. 13ut its higher and nobler end is the proviling of the echolars wilh at suitable arena for the display of their matural tempers and dispositions. So long ns they are in the School-room they are under restraint. Llowever aboudant may be the opportunities afforded the Tenelter of discovering the natural intellectual endowments of his seholars, in the School-room, they are comparatively rare in so far nt their moml character is conecrned. In the uncovered School-room, howerer, as the play-ground is sometimes designated, he secs thens in their naturn condition, unfettered and unembarrassed, in all their native elasticity and buoyane:y, ns they mingle in their sports with their fellows. The Teneher is supposed to be in their midst, sharing in their sports and directing them in their games, and all the while storing up those facts or occurrences, which days or weeks after he may turn to profitable nccount in their moml culture or training. IIe ts thoroughly persunded that the moral nature of the scholars repuires to be trained us well as tie intellectual, that, in fuct, this is tho very element which imparts life and force to the

Wholn educational process; and how is ho to do this unless ho knows something about their matuml tempers, and chnmetera, and liatise. Anll where can he obtain this knowledge more astisfuctorily than in tho plaj-groment? Another portion of tho enclosure might, as wo havo alrendy stated, be npproprintel for a shmblery or gnolen, with its little leda and walks, and tho chihiren taught to keep and irese thom. Such an exerciso would be eminenily instrumental in Imining the *chilitren to habils of uriler anil neainesa, Goozeberry nal C'urment lushes, nut other varieties of the smaller kinits of fruit, might be plantel all nround; nlestinence from the fruit thercof might form an ndmimblo menn for the promincing nud tho alrengliening of many virtues nind graces, in tho mints of tho young.

Amil in the eneo of villages or towns, overy excrtion ought to be made to obtaing grounits for achool houses in the neighbourhoort in the most plensant phaces of resort, within tho bommarics of tho district. And, in the case of large citics, overy menns should be used to sceure sites in retired situntions, as far removed as pmesiblo from tha bustle nod din of the inoro public sireet. The situntion of such schaol-houses reniers a play.ground all tho moro necessary-a plajeground, at leant, sumfient for the crection of $n$ gymnastic appmentus.

The arehitecture of achool-honses is the next subject, but this must be reserval for a subacquent number. We close these remarks trith two puotations. "A school," enys the distinguished stateaman nal phulanthropist Cousin, "ought to he a noble neylum, to which clildren will come, nud in which lhey will remain with plenaure; to which their parentes will send them with good will." "If there is one house," anys mother equally celdirated writer, "in the disirict, moro plensantly loented, mom comfortably constructed, better warned, noro inviting in its general appearnuce, ant more clevating in its intluenec than any other, that house should be the sehool house."

## SCHOOT ROORS.

Tus anying of tho Wise Man is aurely apecinily applica. ble here, "Of making many books thero ia no end." Every country, we hind almost said every district of the country, if not, in too many instances, every school of the district, has its own School books. The Schonlmaster who attains celebrity in tenching any one branch of learninis, seems to imagine that there is inyosed on him tho necessity of publishing a treatise on his favourite subject. Then wo have the nelvocates of some particular system of teaching-it may be, thoy are the originators of that systern, or, at least, very direelly concerned in its propagation-and they too set to work and compile a series of books in adaptation to that system. And then agatin thero are some who entertain different views of the mode of teaching from the original compilers of some admirable scrics of Looks, and thay issue a new edition of the same, with a fow trifling additions, in the shape of explanations, or soms preliminary observations, or the appendage of questions and answers at the end of every clapter, in all probability marring eggregiously the whole excellence of the serics. In addition to the above there is a great number of publishers in every country-men possessed of lighest respectability and of abundant means, who, looking upon the publication and sale of School-books as a good invest-
ment for their capital, eugnge the most distinguished scholars of the day in ans purticular walk of literature nut of science, or the Terecher famous in somo departmont of tha educational finh, (1) writo a trealise or a series of bouks on $n$ given subject, ndaphed for schools of a rertain description. Thies get possession of the manuscript, bargain trith tho printer, and, in luo time, scmil them forth to the public with overy posible recommendation in their favour, ani ply evory means in their power for their extensiva circulation. Ant this pracieo hins been going on for jeare, and arems largely on tho incernse. Aud what, it ming now ho asked, dues this statu uf hings indiente? Unymestinmbly it indientes no orilinary nmome of demand. And whenco comes his appetency? Why such a voracity for naek Schoollooks? It is owing, wo fear, in ton many casee, to arronouns, or, at lenat, very inflefinite views, ns to whint constilutea the very essenco of eduention. Is it not a frict that humdreds nand housands imngine that tho whole of ciluention consists in the power of realing, or in the cupability of going lisough n certuin book or class of beoks? llookambooks-what books do you uso is tho uncensing ery, ns if the hooks weru the aystem, the all of ediention. How often havo wo heard tho fond pareat describing the superior altainments of his child by somo such expressions as these:-" Ilo has gono through Grey, or Wilkinghnm, or Leennic, or eome such well known Seliool-Looks ; or, He is a first rati realer, ho learned a to renil tho "Xentnment in six montlis." And yet not on s of tho facultios of that child may over havo been stirred. Ila has gono through the exerciso mechnnically; but his rensoning powers linva remuined untouched.

Let it not be supposed, by these romarks, that wo under. value the utility of books, or that wo place then all on the same level. True wu havo no asmpnthy with those whose whole system of education seems to consist in a list of books or the varicty of subjects inught. Our settled conviction is that the very essence of education consiats not in the what, hat in the hove; not in the things taught, but in the manner in which they nre taught, nad therefors we regaril the books ns of comparatively minor imporinnce so the method of teaching ndopted, and to the capabilities of the leacher in working it.

Does then the efficient 'Eacher of the most improved sys. tem of ellucation require no School books? Unquestiomally he doce, and that mainly for two objects;-mad it were well that the nuthors of these hooks kept these objects fully in view. 'Tho 'Leacher refuires booky, in tho first place, that he may impart to his scholurs the art of reading with correctnesa the langunge thoy may he atuiging. Whatover that language be, it is essential alike for the reading and speaking of it, that they altain the correct pronunciation of the words, the truo accentuation, isc. But all this is an art, and the nequisition of any art, whether for expertness or proficiency, depends, in a great measuro, on tha pattern of imitation set before the learners; and hence the uecessity of the living voice of the Teacher preceding and accompanying the books rend, the lessons given. From the very nature of this excrcise, it is ensy to seo what is the character of the books required here. They ought to be consecutive in their arrangement, procecding gradually from the ensy to the more diflicult. As the process is entirely meehanical, it requires the best tools and tho most skilful living auents to show their use-that is, books of the best description must
bo emploged, and a Teacher at hand competent to givo in. struction in this tepariment of culueation, - to act tho best copy beforo thas echolars for their imitntion. Tho compilers then of reading School-books in any lagungo ought to linvo this olject prominemity before their mind-that lheed books aro not eo nurh for tho purposo of communicating informntion as of furuishing exercisce, properly armanged, for the acquisition of theart ofrending, for the obinining of a thorough knowiedge of the langunge. Let this principla ho unepraringly applied to all profuseal llending Books and threofourthe of hism would bo declared unprofinuld and worih. less. Thay may coninin a vast amount of information, but this is all. As to their furnishing piecer, ounsecutively nre rnaged, for the exerciso of the clocutionary porvers of the acholar, thoy are of lititlo or no acritice.

But, again, both tenchers noml taught requiro nnother chans of Schosl broks altogelher, in the shingo of text-books. Nio onc, wo think, who hans had nay oxperienco in traching, who renlly undurelnada his buginexe, nat whono henrt is in the work, can linvu fiiled to obsorvo tho unsultablences of $a$ vast number of tho School-books in use, on Graminar, Geogra rling $^{1}$, Arihmutic, Gcometry, Science, Ne. Theau hooks are umauitable, not breause of any deficiency, but mainly berenuse, of n superabuadmace of matter. I'hengrand nitm of their nuthors acems to bo 10 introduco overy thing that can possibly bo anill on the suljece under considerntion, npprenenty more - acsirous to produco a largo volumo than to present the sub. ject in a dinplo nad in na inviting form. Theso books aro put into tho hands of tho young, it matters not whetier thoy are soran or cight, or eleven or iwelva years of nge, nnd tho injudicious tencher, without nay nttempt to mako a selection of the moro important parts, requires his scholurs to read over or to comanit to inemory clapter afier chapternind pago afer page, ilo may, perchance, explain a word or a sentence here and ithere, but ho nover imagines it to bo neces. sary to present nay thing liku an outline of the whole, or to turn to praelical account the lessons alrendy lenrned. Ami What is the result? Tho acholare, posscessing no generat viuw of tho sulyect, perccising littla or no connection in its parts, nud still luss npprehending any practical application of theso parts, or any benoft arising from tho nequircments made, look upon the whole as an unmenning jnrgon; nud, instend of becoming interested as thay proceed in the stull; they but grow in dissatisfaction, until, in too many instances, they settle down in disnppointment and disgust. Such a course may save time nad toil to tho teneher, but it is ruinous to the youlhrul minal; it is calcuinted neither to impart uscful knowledgo nor to improve and strengthen tho thinking powers. And what is to be done so as to obvinto this state of things, in so far as too many of the School-books are concerned? It is to throw them into $n$ now mould, and to gire them the structure and the form of text books. Instend of pressing into them every point beating on the subject under discussion, it is to present in these bouks the very elements or first principlos, with the rules plainly deducible; and these all founded on an neray of facts or examples of the most direct description, which facts or examples oungh to preecde instend of following the grinciples, with their corresponding rules. Morcover these text books, in order moro efficiently so sorre the purpose, ought to be arranged in ne. cordance with tho ngo or epoch of development of the schoInrs; for the moro initintory classes, giviry the broadest out-
line of tho suliject, and so onirards throagh ino or threo alnges, sill tho whole subject atands forth in all its nation bulk and stature.

And what does all this imply in reference to tho 'Tescher? It distircely implies that his ofmec is mainly that of an expositor and ialustrator, thant ho in thaily to repair to tho reciintion roon with his mind litemily atecenal in tho anbject that is to cagngo the attention of tho class, with his viows regnriling it so definito nnd comprehensive, that he can bormer e figuro upon figure, illusirntion upon illusirntion, from objects nnd pursuits whil which his scholare are nequaintel, until he fin rondorod it phinin to tho menneat intellect. And what -d requisito to cnablo him to do nll this vilh emeiency and success? Birat, that ho bon diligent atuldont-overy liny nilvoncing lin his forsonal improvoment; sceondly, that ha necurntuly prepara himself on tha dally lessons of encli clases, and thirilly, that his library bo woll stocked with overy visicty of achool and referenco booke.

## III.-OFFICIAL NOTICES. NOMALAL SCHOOL Abrangements.

Tha Presinciat Normal School han two terms in the yene. The Sumner Turm rommences on tho second Wednesday of Ilny nud eloses sha last track of Saptember. 'Iho Winter 'Term commeners on the zecond Wednesingy of ziovomber and closes tho Inst veek of Mrarcio. Nio I'upil-Teacher, except for very specinl rensons, is admitsed anter a wecel: from tha oponing of ench 'lerm.

schonl, sanctionkd ar tilk boalli or dinketons.

1. That the Seminary bo in session six hours overy weekday, Saturday exceptel, comanncing in summer at $80^{\circ}$ clock, A. AL., nad in winter at $\mathrm{I}^{\circ} 0^{\circ}$ lock, A. ML, nut closing respece fively at 3 and 4 oclock in tha afternoon, with an liour's interval.
2. That the Seminary bo openced evory day writh praise, rending the Scripesares and prajer, nad cloxed with the Lord's l'rnyer and IBencdiction. P'upils having conscientious scruples to thesa exorcises nre not required to nttend. Accorilingly tho roll will not be called till thuy aro over.
3. That the whole organization of the Seminary, the einasification of students, the course of stady pursucil, the books used, Sec. \&e., bo entirely under tho direction and control of the principnl.
4. That the students bo regular and punctual in their nttendance at tho Seminary, that they enrefully observe the Regulations and lyye lawe of tho Directors, and sueli instructions ns tho Y'rincipal may from time to timu geo fit to give; and that botia within and without the Seminary they comport thenselyes in a manner becoming thair future profes. sion as the Educntors of the young in this Province.
5. That tho pupils July respect the authority of the Teachers, and act towards ench other with brotherly nffection and forbearance ; and that those guilty of any act of disrespect or who violate any of tho Bye-laws bo admonished and censured by the Principal for the flrst offence, and if persevered in, dismissed.
6. 'That nll guilty of nny net of gross immorality bo summarily expelled, and their cases reported to the Board of Directors.
7. That nll cases of sickness, suflicient to warmut the student's absence, bo reported to tho Principal as early as possible; that all who are absent from any one dieh or do not appear till after the roll is called, oxpress in writing to the 1'rincipal the cause thereof.
8. That a copy of tho following regulations and recommendations be sent to tho Boarding-housce of the atudents
and to read by the l'rincipal after tho callieg of the roll on the frat Aloainy of every month.
9. That thu rtudents slinil boasd and toungo in auch limuese and under such regulations as are npproved of by tha 1'rincipal.
10. Thint tha latics stal gentlemen in attendance be not alo lowed to houril unter the enme roofo anil genifemen of the School are not allowed to call on budies of tho tichool after six uclock, I'. M.
11. 'That amoking by tho stusents in their llonriling houses, lie unt allowed, sind that unict, clesulitiess and neataces are expectat of all.
12. Thiat tho pulpils conform to tho general oriler null wen. gea af tha families in which thers resklte. Whero it can bo conveniently dono it is desirable that the aludents breakfast. In almmer, not later than 7 occlock, nud, in wimer, inot later
 ncon, nexl zup from of to fif widerk, $1{ }^{2}$. M.
E. "thint yuictness bo uliecreed lit the npartments" during Efuly, find that hie hour for retiring to reat be 10 corlock, 13. At., and shat a proprer amouns of tima be devored to
 and lint, nt I nat, nue hour of exercises in ilue open air the required ench day, healilo wealher, se., perminting.
b. It is apecially reupeated that nil vinlations of physient Iaw, likely serivusly to injura heath, bo reportal to the 1'rincipul.
13. It is experted that on Sabbath, tho athelents preserve order nat quite in their moons, mid hat they refruin from every thang likus a desercration of that day.
14. Thut any matked nad continued disregarel of theso regulations bo requrled to tha l'rincipal.

## Chitheicatis of nomani, schoof, stubints.

Thure arn three clasees of ecrififates granted to tha gradustea of Normal School, viz, lïras nan Secomil Clame Certillentes for Common Schook, and Curtilicate fior Crammar Scliouls or Academies.

## Scronil Class Candidates.

The following are tho branches of lenening profesed by tho candidates Jor Second Class Common Seliool Cirthi-caltes:-

1. That lley bo ablo to rend with enke, intelligenee and impressivences any pinsanace, cither in prowe or verac, in lat section of dili llook Irish National Seri. mul ho well nequaninged with the principles of proamaciation nad of rending.
2. That they be nble to apell correctly and wilh proper punctuation the wotis of an ordinary aentence dicinted by tho lixnminers.
3. That they bo able to write a plain, free hand, and be well acpuninted with sho rules of teaching writing.
4. That they do mentully nay necount in the simplo and compound rulcs of Arithmetic, with currectness and expedition, und work on the slate nay exercise as far is Interest, including Fractions.
5. That they be acequinted with the elements of llookkerping.
6. That they ho able to parse any sentence in proso or poetry which mny bo aubinitued, write grammatically nny passego that may be rearl, and be well acquainted with tho structura and composition of sentencea, the Eitymology of worls, \&e.
7. That they be familiar with the cleteents of Mathemntical, Physicaland Yolitienl Geograply, as contained in Dr. Sullivan's Geograpliy Gencralized.
8. That they possess a fuir knowledgo of Natural IIistory as set forts in Ist section of 5 th llaok of Natiounl Serics.
9. That they possess some knowledge of School Orgnizntion and Government, and the most improved metliods of teaching the various branches of a Common School educution.

## First Claes Candidates.

In addition to the above, it is required of candidates for Firat Class Certificates

1. Thast they pmesess some knowledze of tho rements of Binglish Compmaition, and of hio primeriples of Criticiam.
2. That liey milierstand the 1 eo af sho T'erteatrial Glovo nald be able to work the exerciarn of any Elenentiary IBook diercon, and lo able to draw outlino maps of any country or continent.
3. Tlatht they bn nhio to thenny exercien in Montal Arithe melio as far as Simplo ant Compmund Imereal, inrlusironoid wark on hiso slate lha mast dilloule accounts in nay de, partment of Commercial Aribhmetic.
4. Than lecomile candilates ha familine will tho simpla rules of Algubra and be alin Io domonatrato ally l'roprasition
 to solvo prolicems in Simplu nul Quadratio Ejpuntions. Inni In demonstrino nay proposition in the frat four blooks of Eucliul.
S. That liemato camilitiven bo nequniated with tho elo. ments af l'mactical Mallematice, nand lhat Male conalidntes kinuy thorvighty the rales lor tho Menammation of Supprilless nnd Sulide, thu clementa of I moni Surveying mul of Navigntion, ma far ns obliguo sailing.
G. Thas thay knenv well tho lembing outlines of Univarsal Iliators.
T. 'linat they be able in afmil a thorongle examimation on the viriona lirameles ol Natural Scionces and point out tho "tility sherent to the liducentur.
5. Thas they possean a pupilar knowledige of tien elomenta of Ninural Philosophy, and esuecially of Aatronoms:
6. 'That they pussess an elemer nuid delintte viaw of the en!] of edncation, anil the menns to bo caphoyed for tho necome plishancolt if llate ent.

## Grummar Sshool Candidates.

## In ndidition to ilin nionvo

1. That they he thoroughly necpuainted with tho lighest deparmemes of English Grammar nod Compmaition.
2. That thay posseas sin necurato knowledgo of Grecinn and lioman llisiory, and of linglish History down to the preaent time.
3. 'That dhoy bes well nequninted with Ancient Geography,
4. That they know thu lirss six books of biuctiol mid higheat liranchen of Chambersi Algebra, ar nouo of similar character, and nlaon hhorough knowledgo of practical Mas. s!e:tintics and Nuvigation.
b. 'I hat thoy atami an exnmination in (ireck nad Iatin on the follaning authors:-

In Greek Testaneent, tho whole of Lake's Gospel and Xemophonis Amakasis, llooks 1. and 11., Auacreonis Odes, Ilomer's llinil, llooks l. nall il.
In Latin, Cumar de hello Gullico, Jlooka I., II. and UI., Livy, Blook JXVI., Virgil's Fsineid, Books I., II., III, IV., Ilorncu Odes, llook I., ama bis well nequained with the
 sin l'rose nad Verse.
6. That the knowledgo of any of tho Monern Inngungan, whether Erench or latian, or German or Spanish, will entitlu the pressessor to spiccial honors.
7. That they ho well acepuninted with the elements of Chemistry, mal specially latat division of it known by the name of Orgonic.

## PRESENT TERM.

This Institution commenced its Summer Term on tho accond Wednesday of May last. 'Ihe lirst week was givent in the enrolenent of the students and in their exnatimation with a view to classificulaon. Tho following Wednesing the formal opening lecture was delivered hy the l'rincipal, who took for his subject tho Nature, History amd Benectits of Normal Sehools. Immediately thereafter the regular business of the Session commenced. Tho following is a list of tho students at present in attendance and the counties whence they came:-

## Yousa Leadirs.

Ariss Susan Johnstone-Colchester.
Carolina Mnckenzio-Piclou.
Charlotte Fleteler-Colchester.

Ihesery (Gouriar-Cumleriand.
Amelia Ambibiati-llalifax.
Alafy Anmand-Ilalifax.
liariiel MeCurds-lialifax.
J Nisabeth lialker-I, unentorg.
(Tallatine Arclibald-liugshorongion
Blartha Viekie-Colchester.
Chrimina lloee do.
Nanet Crockell-Syincy.
Sarab AcIreol-Colchester.
Sanry Inamhill- Na,
Alary Filiza Ielancy - Colehcaler.
stary Ann linaghe $\quad$ lo.
Iano Floming - dow
Alnry Iohurione-
Stasan thentiy-
Sirali Ikenly-
Matia F: Kínnedy-
Jhires lraleon-
Flora Dickeon-Praying Iupit.

## louxt (inatl,

Mr. IRojerick Nefiregor-Capo IBrelon.
Johin MelanomeSyiney, C. 3 .
Jolin Iliva-lnvernere, C. is
Angus Ihas-Colchenter
Charles Arubibalil-Ifalifax.
James Chrixie- Colcheter.
IKomalis MeQubartio-Inrernces, C. Th
Iolin Clipinan-innapolis.
Janid Cameron-linton.
Jolin Cameron- ita
Iohn Gunn-Intemese, C. It
dacob Iarton-Colchicsier.
Duncan Duffelictou.
Jamra Lílilom Colchester.
Calob Lhinnos-1)ipley.
John Itlarkader-Iinrmoulh.
Samnel Jlaymonile do
Cliatler Darloy- Jo.
James Vi. Viraser- Picion.
Itenjamin Chriatman-IIanta
Somertilla Dictio - Kíngs
Jolin D. 13ruco-l'ictou.
11. Donno-Shelbuina.

Iolin Camnron-lictou.
1duwis Melieen (Agriculloral Sivitonl)-Capo Breton.
j)avid Taylor (l'aying l'upil)-Invornose.

Fiamand MicCundy-Coichoster.

## MODI:L SCHOOLS.

Tho unalal Quarterly Review of theso Schools will tako placo on Thursday, tho 10th July. The noxt gunrtur will commence, nfier Ifolidays, on Mrondng, 1 Gili Augush.

Theso Schoola nro conducted, as far ns practimble, in ace corlance with tho '1rnining System originated by David Stow, lisy, Glasgow, fumishing a completo pliysical. intelJectunl and moral Eilucation, along with an imiluatrial depatment forgirls. With tho comminn branches of Eluenion aro tauglit Mathematice, Latin, Greck and French, Science, \&ec.
rie:s.
Primary Department per Quarter
Intermediato do do
506
Iligh School do do
89
In and around Trero good Monrd nnal Iodging for Normal and Medel pupils can bo hind at from 8s. to 12s. Gd. a-wech.

## GENERAY NORICES.

As it in exeredingly desimble that the Statistical Report of Filucation for the current year be more fill and accurate than heretofore, the Superintendent of Jiducation begs to call the nttention of Tenchers to the necessity of ascertain. ing, in good time, lio exnct number of children of a sehool age, that is, between 5 and 15, resideut wilhin tho District ;
and of tho Clesks of Itonnis to enilearour io find some trustworthy yerson, of perzonf, to altend to this matier in thoso Scliool Districts where thero aro at preeent no 'l'cnclicrs.

Tho Trustece of tha Scliool Dielricls ahould loso ns litilo Lime na masilite in npprizing lise Clerk of tho Jlonrd of School Commisaioners of their liaving engngel a Tencher and when ho commencel operations. Ithen tho I'rustees neglect to inform tho Clork tho Tencher himself ouglus to do 80, whether ho holds a Lisenee or nob.

Tho Trusices of Grnmmar Schoole nro requested to forward to tho Superiniondent of lislucnion duplienta copy of tho eemi-nnnuni relurn of their schoot sent to tho Finnncin Sucrefary's Omce.

Tho Trusices of Schoots and others alcairoms of obtaining Normal trained Tanclicrs, dillior for Common or Crammar Schoole, nto rejurateil to communiento rilli tho I'rincignl of tho Normal Sehool during the monthe of Felurahty of Aitpust, that is, a monti heloro tho close of ench 'l'cte--miving, at lio enmo lime, $n$ fulf etatencal of particulars regurding thin achools to bo supplici.

All mircrisements of Trustess wanting Tenchers, or Tenchers wanling silundions, will bo insericd gratuitousiy in this Journal.

All informatiun regarding Eellucational proccedings in any part of tho l'rovince, suchina the exninitution of Schoole, tho erection of Schomiohouace, liducatiomit Meelintes, \&e., io bo forwanded to tho Eelitor by tho end of avery monill to cnsuro their being inserted iti next number.

Special nttention rilt bo pail to the commlanications of Tenchers on any tnatter connected with thoir profursion.

## A WOMD JO THE PARENTS OF NOVA SCOTIA.

In overy movement touching tha cuncalion of the rising genermion, jou nre deeply interented. Upon you primarily nind directly, lins the Alinighty and gmeions Crentor dorolved tho celumation of your offyiting. 'This is the dictate of natare, mtifed nad cmiobled by that of ingpimtion. And this cducntion, need we kay, is eomething moro than tho proviling of suitabie means for the growth or development of tho physient frame, or for tho promotion of tho temparal welfare of yeur children; it is thu cultivntion nnd lmprovement of their intellectual nid mornl naturo; and that not merely to fit nad qualify them for somo particular businces, or vocation, or profession, but for fulfilling tho great end of their being here, nal theroby preparing nal ripening them for a higher sphere herenfee. The instincts or lavs of nnture constmin you to caro nud toil for the bedies of your children. Nohlang can be moro beautiful or more priseworthy than to.sen parents oxpending their energies, physienl and mentnl, in providing the menus necessary for tho support of the bodics of their offipring, denying themselves persomal conveniences and comforts for their luenclit, for the sidvancement of their worily prosperity. And yet nfterall, what is the body but thameroshell or casket, tho integumentorouter covering, enclosinga jowel of inestimablo value,n jowel which no creaturo or host of ereatures can parchasen jewel which makes man tha rery inazo of his Crentor,naturnl. ly, and, by the npplication of tho remedinl cconomy, will also do so, morally. And if you lnbour and toil so much for the bodily welfire of your children, what ought you to do for their mental! If you are willing to manko such sacriflecs for tho perishable part, how much more for the imperishable! If you are eo interested in thetr temporal welfare, how much more ought you to be in their cternal! And just ns mind is infnitcly superior to matter, and the things of eternity to the things of time, so is your instrumentality in this field nll the more lofty, and diguifich and enenuraging. You may not be nble loalter the staturo of your children, or to chango their plysaical fea-
tures, or to make ona hair whita or black, but who will renturo sura, or to make ona hair rhito or black, but whr till renturo
to ect any limits to your agency in tho elucation of mind the expansion and enlargement of their intellectunl and mom! nature. Tho best hail echemes for tha nelsancement of the worlily repulation of your children may bo all in an insinht dashed to pieces-tho mesns you havo eforml up, tho thonennds of goll ami silver jou harenccumulatel, mny all bo dise sipated or turned into a cureo; but if you proceed in n right gritit, with dino humility nold depondence, ta tho intellectunt nat moml alucation of your chilisen, not nn efort you purt forll, sot a fact or truht youl communicate, not nn imprese you make, but will (ell, atul fell exicusivels. uporn the whald of their futum career, upan tho wholo of thicir immortal deatiny: Jike tha tiuto rill from tho mountain, which, recciving ono tri-
 as it rolls on to the oecan, tha mighly tillo of its tratere, so will it bo with $n$ sound nnd enlightened Clristinn educntion. Niot only will your chilitren, nnil your chililren's cliblifen, down to tha latest postority, reap tha beneft of your inatmmentality, but you will thominy bequenth to tho human fanilly a legary rastly more valuabla than tho triumphas of tho unrrior, tho discoveries of tho philomplier, the nelievemente of mero matus ral benorolonec, in the calse of listresed and suffering hamanity; and hs onc ngo anceceds nnother will tho results of your ngeney bo videning nad slecpening, till they minglo in chat universal chorus which will peel ith strelgeth mill harmony in ono tuccasing stmin throughout tho blise mad brightiness of tho efernal day:

Tet mo then, with all respect, oxhort yout ns parents to seek to realizo sour rekjonalility nod your privilige. You maty be careless nad neglecefil of your dus, lirough igsomnce, nad allow your children to grow up as thry lish, imagining that yon have dono all that is required, when yous provido for theni food and clothing. Or you may bo atrare of, and rends to acknoricedge, to n certain exicnt nt least, tho obliggtions devolving upon you, but jou nro so much engrossed with your worldy avorations,-nad all for the semporni welfare of your housetiold, - that you hinvo nat a moment to dovota to their meninl improvenent; and therefore you just allow them to share in the means that may exise around, enisficd that you hava donn nll shat is required of you, when yous contribute your due proportion for tho support of theso menns. Or you may profees, and that in no measured terms, ho honored dignity and reeponsibility conneeled with the mental nod moml education of your offepring, but youi have not mado a atuily of tho aulyject, nad you aro thereforo completely ignomat of tho improicments of molern times on the matier of ellucation. Thero are horrever Sabbath-School and Wect-dny Tenchecr, in every wrapect competent for tho task, und with perfeet confldence jou hand your children over to them, without the lenst inguiry as to their mode of mangement, or ns to their profiting by the ndraninges thay enjoy. It is quite enougla for you to knove that lhoy are al somuschool. Jlut will these views nad sentimenss, will theso appologics and exonemtions rial you of your reaponaibillty, or leasen the criminality of your neglect? Not one whit. As well might you attempt to break the link between tho Crentorand tho creature, as between tho parent and child. And whito chia relationship contimues to subsist, the responsibilities and obligntions arising therefrom must exist n!so. Would that Parenta kaw and felt all this as thay ought 1 Would that they reslized tho obligation to provido tho neecesenry food for tho mind as much ns they do for tha body 1 Would that they belioved that tho Chumeh and tho Stato ane alike dependent on them, ns the nursery of tmining, and as the reservoir of supply ; and as thoy are laithful and diligent in the discharge of their duty, so will the supply subserve llie great cuds of tho body politic, nnd tha body ccelesinstic. And havo wo not, my fellow parents, the most animating encouragements to give ourselves with energy, and zanl, and persevernnce to this important york? Wo lave tho natural impreasibility of our chitdren to operate on. As it is in the vegetable anul nnimal kingdom, 80 is it in tho mental. We can bend with ease the young sappling, but what strength is required to bend the sturdy oak I We can train the young dog or horse to perform the most extraordinary fent-but when old, how feeblo our
instrumentality. Shin it with tho tenter mind. If, ou hav been
 nquiring any lendit greaterl? Vaquestinnalily it is in hias mom jurenile jeare. An then wo emin our chilliren, to aliall licy bo when thary grow up to manliced noil momanhool. llit to monimg us yel tho mere, wo hate the blexeing of the slont Iligh tenilened to us in tha fullath noil most mequirocal lerms. llere, if anywhere, wo linvo line upon line, precept upon jereeept, lestimony upon tetimons. As thero in no rolntiomship more endenring, po there are no dutios to thich thero is atancheal a riclier or moronalisfying commmunication of hicnvenIf support, than tho daties apringing from tho rclationship theiveen parent noil cliilh.-And furthermore, if thero is no agency to blaseed of Gool, so thero is sono lint bringe a ficher rovemo of alory to tho Supremo lleing, or en pratomit wilh hlaseings 10 tho human family; j'arcita of Corn Scotin, wo camesty solicit your eje. prathy num conoperation. Wo firmly believo that tho ejsictis of ellecation tre tro lalmotring ta earry into eficet, is bnaed nliko on moture amil sevelation, but withont your hesistance nll our efforts will prove, in a great menare, numfory. tal, hwwerer, our henrts and energies bo unitel, nim what, under God, may not be, whint slinll not bo efferted.

## A WORD TO TEACHERS—MALE AND DBMALIE.

Fellow Inkourere, itis for gour benefit mainly flant this l'eriodical has been startel, nal sherefors it might secm almost superfluous :ondidreas you direcily. Still ilicre is, na yert mast perecive, a marked difierenco betreen tho varions datien aud exercises of your prolesion, nad your perronal chameter. It is no doult true that tecween the calling of noy man, and his conluct, thero exints the closest relation. This is specinlly tho cna in educationel employments. Iet tho beat rystem of ealucation bo silopted, if tint aystem be not thorolighly worked, it rill proven comparative fillure. Anll to work it thoroughe is tho operntor must pinsecss ecrinin qualitications nud nltantments, nlong with na nnlour of enthusinam in his calling which no dimiculicas can guench, mo dienypointments cmin bafle. So *ntisficd an I of this, that ever sinco I cuterel upon tho dution of my present emie, I havo spmed neither timo nor labour in culisting your sympathy and co-operntion in all my plans nnd projects, and in endeavouring to convince you that my hishoeat deaire liat been to niduaco your uefulausa and comurt. Wilh thostercotyped 'reacher, i. e., tha l'encher who imngines that ho lana nrrived at perfection in his calling, nud who, class aner elace, and term afer term, goes the weary round of his perfunctorinl services-or the hireling 'lencher, who has nanutned lint oflice for noother purgose chan to cblaina piecuofbread; -Or tha fimbecilo Teacher, who has belakenhimedftotho call. ing becauso ho has failed in every other eruployment, -with the one or the other of theso Teachers, I have wo community of sentiment, and cannot conscientiously hid them Gol specit. 13 wh wherever nnil whenever I havu meta 'leacher who seemcd to be possexsed of nny zent in his calling, or any lesire to improvo limself professionally, I have cadenvoured to stimuIndo and befriend him by overy meana in my power. And it is with the view of effecting this olject more extenaively, that I intend to nddress an few wonls to you, perwonally nnd directly, in every subsequent number of thin journal, in tho assumince that you will candidly test my counsein; and if hincy commend themselves to your judgment and conscience, that you will checrfilly and perseveringly nim at reducing them to practico.

And nt this, the commencement of our written intercourec, what point can I muro befittingly press upon your notice than tho necessity of carefully examining yourselves, ns to tho motive that flrst induced you to undertake your present oflice, and by which you nre atill nuimnted in discharging its duties. In other work, that, with all sincerity nall friflffluess jou individually pat so yourselves the question,-" What manner of spirit am I of ${ }^{\prime \prime}$ Am I engaged in my present work only for the sake of the emolument it may bring, or because of the sphere of usefulness it opens up? Inve I enlightenced
aui enlarged siews of the naturnt eapmbilities of the laman mimi, nud have I nuything like an ndequate sense of the awfinl reaponsibility of heing its edmentor? Do I bok upen golld as the contemptible alross of enrth, when compured with tho inperishublo gem which is to be polished and bronght out into heaven's light, to shine for over? Am I seeking tho highest of all reviatds, an approving conscienco nud in approving Gokl, and keeping in their proper suborlimute phace all enarthly rewards? Ain I recognizing and reverencing the handiwork of God in every child, and labouring with the desire of being instrumental in training it to the highest ntamasent of which it is capmble? These are questions of parmomit ime prothane for every Teacher to put to himself, not only at the commentement of his teaching cateer, but thronghout all his subsempent fabours. Fom will not supposo for a moment, after all I have said nud done, that I undervalue matural gifts or athinments. These are necessury to constitute n suceersful 'Teacher, but there may be possessed, nad posgessed in no ordiunry measure, and jet, if the true spinit, it the right motive is not there, the life, and foree, and glory of the Teacher are ammating, amd by conserpuence all his hbours will be slavish, and all his intercourse with his scholars unprofitable. And, alas! how many of the teachers are in this situntion! Is it not a noturivus fact that ter) many resort to the work of'Teaching, from the most unworthy motives,-such as the love of fithy lutic or the consciousness of imberility in any other business, orfrom merepersomal convenience. Do not others, again, betake themsele es to it as an entirely secondary object, for the purpose, it may ies of emabling them to prosecute their own stulies, nud of keeping up with their classes, or as a stepping stone to something more lucrative, to something heyond, ame, in their estimate, higher in the scale of respectability? And do not many others elgage in 'reaching without duly considering the nature or the respmasibility of the olliee, or without perceiving at all the necessity of making my preparation for the diseharge of its ardnous duties.
I.et me then entreat you to consider and pouder what manner of spirit youn are of Realize the awfil importance of the work, nud the resionsibility it involves. Come to its performance after you have sulliciently pondered its nature and its responsibilities, and devoted your best powers to a thorough preparation for its ligh dutics. Sbove all, see that your motives when you enter the School-room be sulh as will be neceptable in the sight of Gol, when viewed by the light beaming out fiom his throne.
"Oh: lit not then unskilful hands attempt
To play the harp, whiose tones, whoso living tones
Are left for ever in the strings. Better far
That heaven's lightnings blast luas very soul
And atrike it back to Chanos lowest depths
Than knowingly, by wonl or heed to seme
A blight upon tho trusting mand of youth."

## A WOLD TO TRESTEIS, OR LOCAT COMMT. TELS OF MANAGEMENT:

In addressing Parnts, I urgod and pressel the neressity of their dining their gart in the furthmance of the Educ:tion of their chilhran, that it is not only their paramonut duty, but thair highest interest, to labor, nad, if necd be, to make every sacrifice in order to provide for them un elueation aleguate to their menus. But it is inforesible, in the very mature of the casc, that the Parcuts of a school distrist or section, can, in the ir individual capacity, makr the nereseary armarements for the accomplishment of this end. They can only act through the medium of representatives. Accordingly, our haw provides for tha nppointment of three Trustees at least in each School section, whose business it is to take charge of the whole of the selool property of the District, whether of building\%, or furniture, or books, or appinatus; to negotiate nll matters with the Tencher, and to seo that the engagement entered into is imple-meated;-in one word, to co-operate in every way with the 'Teacher, in carrying on the Diducation of the locality. It is for these and such lik objects that you are selected by the inha-
hitants of the district. For the lime being you net for them. You carry out to the best of your nbility their desives and instructions. Aud who can fuil to perceive the responsibility which this oflico imposes upou you, and the mbuy and nrduous duties it involves ;-and yet is it not jndispensably necessary? Withont a vigilant 'l'mustecslip tha whole Sehool 1'roperty, which may have been necumulated, at no small expense, will go to ruin, as may he seen in humdreds of enses. Without it the whole canse of education is at the mersy of circhmstances-for there is no one to select a 'I'encher adapted for the locality; and if, perehance, one worthy of the mane should pass along, he is searcely setited when ha resolves to move; just becanse he feels that there are none to uphold his hands in his many dilliculties. Withouta thorough Trusteeship there can be no advancement in tho eduention of the locality; and are not all equally interested in this work, not enly for the preservation of property, but for the whole industrinl and social elevation of tho community? Andshould not all his lead you to aceept the olfies, and vigoromisy to dis. charge its duties? But you linve higher motives and encouragements. You have the whole educatiomal intorests of the locality entrusted to you, and can there be a finer field of philanthropy, or a more important sphere of Christinn usefulness? For the time being you are the representatives of edueation in the neighbourhood, and while you are striving to act for the benefit of all, you are but promoting the education of thoso who are near and dear;-it may be your own children. 'Jisese considerations I would exhort youto ponder and weigh. I nm not ignorant of the dilliculties to which you are exposed, and expecially those that arise from the indifference and lethatery of parents themselves;-perlaps three-fourths of the district give themselves no concern about your proceelings. They may send their children or they may pay the appointed fees, but all the while they are wishing you to understand that they are conferring an obligation upon you. I know too, how often many of you are obliged to advance money in belanff of indivilmals, in order to keep faith with the 'Iencher, and that too without any certain knowledge of its ever being refunded. Let not these difficulties hovever, dishearten or discourage you-mather let them have the effect of stimulating you to more zeal, and to more influching perseveramec. Afted has yet to be done to awaken right sentiments in the minds of the people, aye, of parents themselves, in the cause of cducation. Look upon all this, lowever, as but an extension of your sphere of usefinhes. Labor for a higher reward than that of human gratitude; and this you shall not be without. Fisteem it not only a duty but a privilege to be engaged in this work, and this will elevate you above all the unthankfulness you may meet; it will remove many of the most formidable barriers that lic in your way.

I ielieve that much, very much might be done in the various districis to facilitate your proceedingo, and to render your position comparatively free from the amoyances with which it is besct. What is avanting is a more licalthful tone of mind on the whole subject of elucation. Then would all we found as one united, determined band of brethren, furthering the great work. It shall be my aim, as it is my duty to labour in immarting such $n$ tone. And in the mean time I shall crave the fiberty of bringing before you, time after time, such observations regarding the importance, and the duties, and the honours of your oflee, as will, I trust, prove beneficial for your direction and encouragement. I feel perfectly cunfident that you will weigh well these observation?, and do what you can to carry these suggestions into effict ; and so be honored instruments in advancing the edueational interests of the districts over which you are parced.

## A IVORD TO COMDIISSIONERS.

I hare now had the pleasure of mecting with the greater portion of you three times, on occasion of my educational tours throughout the Province, when 1 directed your attention to educational matters, either of a more general or local charac-
ter. I rejoice in the opportunily now aftionded ne of expressing to you publicly the satisfiction I have experienced by the interest yon manifested in the cause of elucation, the rentiness with which you listened to any suggestions that I may hare had to ofter, and your willingness to carry these into practieal effect. I have often intimated to you the desirableness of sume clinnnel by which 1 might address you more frequent1y, and in a more permanent form. That elonnel is now open. cd up through this Monthly Periodical, ant I trust it will prove of benefit to us all.

It appears to me llat a local Bonrd, presiding over the edneational interests oin County, or a large section thereof, is a wise and judicious arrangement. If it is right nud proper that tho inhabitans of a sehool district should possesis representatives to see after their individual and combined interests educatiomally, it is equally right and proper that the Government be provided with representatives, whose province it is to stir up the different localities, nad to see that the intemtions of the Legislature in the educational enactmentsare fully complied with.

But to bo somewhat more particular. it is yours, frist, 'ro do all in your power to have the school districts carefully defined, and to insist upon the inhabitants meeting in a legnal form for the appointment of'rustecs. Sceondy, Toexamine, and license, and classify the 'Tenchers. Thirdly, 'lo apportion the D'rovincial Fumbls placel at your disposal in accordance with law. And Fourthly, 'Io carry ont the intentions of the Iderislature in regard to School lBooks mid Library 33ooks, and generally to aid in tho premotion of education within the bounds of your hoard.

And do not these weighty matters with which you are intrusted by the Province demand a grent nmount of cducationnl \%enl, of culightened knowlelge in the progress now making in this important work, of devoted philanthrophy, of high-toned patriotism? Persuaded as I am that you are desitious to further the great cause of education within your own bounds, I shail take occasion, time after time, to direct your thoughts to the functions which the Province expects you to discharge, and blall witia all faithfulness and frankness endeavour to point out the way in which this may be most efficiently done. In the meantime, allow me to press upou you the vast iuportance of your present position, and the obligation imposed upon you to dedicate a certain portion of your time every week to the furtherance of the canse of education. If you would just resolve to give one hour or so a week to the work, either in keeping your mind abreast with the views of the day, or in active employment, stirring up Trustees or visiting Schools, you would be perfectly amazed at the result in the cousse of one or two years. I know that most.of you are busily engaged with yeur worldy calling, and that every moment of your time is oceupied in lowking after your farms and yuar merchandise,and who does not highly commend your diligence? But surcly zou cannot be so orerwhelmed with business, as hy a little arrmgement to spare the portion of time just indicated.

When I visitad the neighbuming States as an educamonist, I save much to admire and to proioc in the whole entermal machinery, in the commodious school-houses, in their nicely fitted furniture, and in the ceppivus supply of Busks. But dere was one thing that struck nese nore than all ulhere, and that was to find the basily engraged merchames in the cities of blostou and. Niew Yurl, dedicuting an luur every day, and some of them two hours, to selaol visitations, to atemdance at Connmittee meetings, \&c. And why did they do so? Wis it because they and their fumilies vere lees dependent. upun therr connmercial exertions and watchfulness? Or was it becamso an emulunent was bestowed on them for their labours? Or was it because they were desirous to while aray a few irksome hours? No, No! The grand reason was that these men were in some measure, at lenst, impressed with the conviction that there was real cconomy, substantial saving, in this course of procedure; that let them accumulate what they will, there was no security for their property, but in the industrial pursuits of the young; and that it was vastly more beneficial to their families, in a temporal point of view, to have education advanced, than to support Jails and their appendages, or a large constabulatury es-
tablishment. And still more, these merchants saw clearly that the perpetuation and progressive improvement of their republican institutions, on which they had sut their heart, dupended entirely on the education, intellectual and moral, of tho rising genemation. Ponder theso views and fintes, mid methinks you wil! no longer complain of lack of time, or begrulgo a fels hours every weck. Hut I would hate you to tako a still more commanding platform. Is there no gratification arising froun the expansion of intellect, from the elevation of the affections, from tho cxhibition of all tho virtues mul graces that adorn lummity? Is there no reward in the helping on of what is most significantly desiguated a fashioning dind moulding process? Jour onsciences must compel you to answer in tho alfirmative. Ind las not Providenee placed yon in one of the most com manding positions, on high vantrige grouml, for lending your aid in the furtherance of these ohjects, in the accomplishment of an end so benignant and so glorious?

## IV.-EDUCATIONAL INTELLIGENCE. COLONIAL.

NOVA gCOTAL-rast mistory añ irnesent condition OF 1 Ulllio EDUCA:ION.
Ture first Aet of tho Legishture connected with Edacntion was passed in 1811. The main featuru of this Aet was then granting of $£ 25$ per annum to every school sustained by a contribution of $£ 50$ from the people. This Act contimaed for fifteen years, when it was superceded by one past in 1826, which provided a special sumfor ench county, to bo administered according to certain conditions by a hoard of School Commissioners. The sum of $£ 2,600$, gramtud in 1820, was raised in 1831 to $£ 4000$. This remained till 1845, when a Bill was passed tho Legishature, which, with other provisions, granted the sum of $£ 11,170$ for the Common School Education of the country, with about $£ 2000$ for more advanced schools. This lifll continued in force till 1850, when another camo into operation, and which is tho one under which we are now acting. In this enactiment the sum granted for common and advanced schools continued the same, but there was some additional grants made, such as $£ 600$ for the purchase of School Books for poor children and $£ 500$ per annum for Sehool Libraries. Along with some other improvements this enactment made provision for the appointment of a Superintendent of Education. J. W. Dawson, Esq., of Pictou, now Principal of McGill College, Montreal, a gentleman poseessed of no ordinnsy tact, rare sagacity, good business lanbits and high scientific attainments, was appointed to the oflice. Mr. Dawson's offcial visits througlout the Province imparted a mighty impulse to the cause of Eduention. At his instigation George Young, Esq., as chairman of Eiucational Committee repurted a bill to found a Normal School, which was thrown out on the third reading. Mr. Dawsun conlinacd in office fur about two years, when he resigned. In 18ï3 substantially the same Normal School Bill was introduced into the IIouse of Asembly by Samuel Creelman, Esup, the then Fimancial Sucretary, and yasial. Anungot uther arraugraments thas Ball provided that the Priacipal of the 大iomal School shall be ex uplicio Supetintendeat of Education, and bo released altugether frum the inspection of schuols. The present In. cumbent was appointed to his uffice in 18joj ; and sonce then has lectured ur-taught on an averagu fuur hours every day duaing each sessiun of the Nurinal Schoul, sisited almost the whole Province three times, delivered public Lectures on Education in all the most important settements, held Teacher's Institutes within the bounds of each Board of School Commissionels-and, in the absence of Inspectors, visited a goodly number of schools.
The Normal School was opened at Truro in November, 1855. The attendance since then has averaged 100 Pupit Teachers per annum, and this without any encouragement from the Legishature save $£ 100$ for Scholarships to the most deserving students, which sum wes withdrawn last ses-
sion of Legislnture. About 1.10 of the Pupil Tenchers liavo graduated, receiving cither first or second class certificates; and of theso about 120 are hibouring ns Teachers in differant parts of the Province. The 'leachers in the Normal School nre-Rer. A. Forrester, D. D.. Principal, who lectures on Education as a profession, on Natural Science, \&ec.; C. Randall, Esin., Tencher of English and Classical Litera. ture; IV. E Mulholland, Disq., Tencher of Mathematics anil Natural Philosophy; and Mr. Somervillo Dickie, Treacher of Music. The whole anmual cost to the Province of the Normnl School, ineluding tho contingencies of office of tho Superintendent of Education, is $£ 900$, being several hundred pounds less thran any similar Institution in Britain or llio Colonies.
Since the Normal School was opened a suite of Model Schools, as practising schools for the Pupil Tenchora, has been built n few yarils from the Normal College by a grant of $£ 500$ from tho Legislature, supplemented by $£ 200$ raised by the inhabituts of 'Iruro and neighbourthood. These MIodot Schools were opened in June, 1857, mend aro now attended by 200 scholars. There are four teachars-J. 13. Calkin, Esq., Hend Master, Mr. II. Webster, of Intermedinte, Miss Sophia Christic, of Primary Department, and Diss Janu Greaves, Teacher of Sewing, Kinitting, de. These schools are supporied by Fees of scholars nad an Eindowment of $£ 200$ by the Leigislature and $£ 25$ by Commissioners of Schools for the District. The whole current expensos to tho Province of tho Normal and Model Schools and Super. intendunt of Eiducation, \&e., are £1141.

Land for an Experir.antal Garden and Nurm on a small scale adjoining the Normal School has been purchased, but no monuy has as yet been granted by the Province for carrying out this project.
In the lReport of the Superintendent of Elucation for 1857 it is stated that the sum of $£ 45,4357 \mathrm{~s}$. Gd. was $\mathrm{ex}-$ pended in payment of the suiluries of Teachers of Common and Grammar Schools; $£ 18,979$ 16s. 4fd. of that sum, by the Province and $£ 32,05511 \mathrm{~s}$. 1 d d. by tho people ; making the average cost of ench child receiving elucation 10s. 10\$1, being for the people 6s. 7al. and for the Province ds. 36.; and the avernge salary of ench Tencher £. 15 per annum: that there were 38,187 children receiring instruction, which, according to the hast census, will give 1 to almost every $6 t$ of the population, or, according to the common increase since that time, 1 to Hbout every 7: that the average time, in weeks, in which the schools were held, was, in winter, 189, and, in summer, 21 , making as near as may be ten months in the yenr: that there were 273 selools in which neither Geograpliy nor Grammar was taught, and 13 of the Common Schools in which Classies were liught: that thore were 44 Grammar Schools in operation, attended by 1.476 in winter, 1738 in summer, that those studying Miathematics and Cinssics wore 107.t, and that the support derived from the people nmounted to $£ 2,4 \overline{5} 3$ 103. 5a., nnd from the Province £818 14s. Dd.: : that besides Monnt Allison Institution at Sackville, N. B., hare were six Academies receiving more or less aid from the Province: that including Gorham College there were seven Collegiate Institutions in the Province, all denominational : that, in winter, there were 905 Teachers, of which 655 wero males and 250 fimales; and in summer 1099, of which 575 were males and 520 females: that 598 school houses were reported as good and comforta ble, 171 as bad, and 186 as loge school houses.

Under the present Educational Bill the Province is divided into 33 Boords of School Commissioners, who are appointed by the Government; the territory under each Board is divided into school sections or districts, presided over by Trustees appoimed by the inhabitants of these districts.The duties of the Commissioners are mainly these:-1st. To seo that the selicol sections are properly defined; 2 nd. To distribute the Provincial funds according to law ; 3rd. To license the Teachers. The dutics of the Trustces are mainly these:-1st. To take charge of school-house and property belonging to district, to select and to engage the

Teacher, to certify that the Tencher lins done his duty, and to see to it that the terms of engagement with 'heacher are fully implemented by tho prople.

NEW HMUNSWICK-LיAST METORY AND TRESENT CONDI* tION OF EDUCATION.
This Provinco is divided educatiomally into countics, pnrishes, districts.

The Legislativo Elucational ennetments of this Provinco did not asaume any very definite shape till 1838, when an Act was passed nuthorizing the Sessions to appoint three 'Trustees in ench parish, who wern charged with tho whole manngement of the Ellucationnl interesta thereof. The inhabitants of each School District were obliged to pay $£ 20$ to the male and $£ 10$ to tho femalo T'eacher, which, being duly certified, entitled the 'Teachor to a similar nmoun' from tho Province. Another Act was passed in 1837, which was substantially the saune as the preceding, with the exception of the appointment of a Board of Education for ench county, whose main function consisted in examining nad licensing tenchers. In 1847 another Act was passed, with the following provisions-1 st. A Provincial Bonrd of Ellucation; 2nd. The establishment of a Trnining Scliool at Fredericton ; 3rd. The classifying of teachers by llonrd according to their qualifications, and their receiving emolument from the Province according to tho class they held; Ath. Thenppropriating of $£ 1000$ for the purchase of School Books; 5 th. Trnelers not availing themselves of 'Training School receiving $£ 10$ less than those who did. In 1852 ull former Aets were repenled, and a new enactument passed which possessed the following now features-lst. The appointunent of a Provivcinl Superintendent and a local Inspector for ench county; 2nd. Provision made for the voluntary adoption of the $\Lambda$ ssessment principlo; 3rd. A Board of Education as before with the Superintendent as Sucretary; thl. Trustees roquired to divide parishes into distriets, to assist in providing school houses and procuring teachers; 5th. Allowing on an average $£ 200$ to cach parish, and teachers where Assessment principle was ndopted to have 25 per cent. over and above the allowance to tenchers of the same class in other parishes; Gih. The establishment of a Training School at St. John. In 1854 another Act was passed, which merely altered one section of the preceding, fixing the following senle of salaries for teachers-lst class male, £37 10s., 2nd, $£ 30,3 \mathrm{rd}, £ 2210 \mathrm{~s}$; 1st class female, $£ 2 \mathrm{i} 10$ s., $2 \mathrm{nd}, £ 22$ $10 \mathrm{s}$. , 3rd, $£ 17$ 10s.

We have before us the Report of the Superintendent of Education for the past year, from which we extract the following items :- There are 1120 school districts, but only 958 school houses, and of these 146 are vacant. The number of children attending school is 30,000 , lenving upwards of 23,000 of school goingage without instruction. The nverage time in which the schools have been in operation is $\mathbf{8 6}$ weeks. The number of male and female tenchers 952, of whom 566 held third class licenses. The average salary of males $£ .1015 \mathrm{~s}$, and of females $£ 252 \mathrm{~s}$. Of these teachers 208 are Episcopalians, 198 Roman Catholics, 148 Iresbyterians, 144 Methodists, 237 Baptists, ó Congregationilists, and 3 others. The sum granted by the Province to the 13 countics is $£ 18,258$, and subscribed by inhabitants $£ 20,000$, which with small sums derived from other sources makes the. grand total of $£ 38,637$ 12s. 9d. expended on parish school education. Besides this there is the sum of E0841 23. Gd. expended on various Educational Institutions, which raises the total amount given by the Province for Educational purposes during the year 1857 to $£ 27,88911 \mathrm{~s}$. 6 d :, and makes the sum from all sources, $£ 48,08911 \mathrm{~s}$. Gd.

A new Elucatioral enactment was passed by the Legisla. ture of this 1 rovince on the 9 th of $\Lambda$ pril last. We shall give a syuopsis of this 33 ill in our next. In the meantime we cannot omit noticing the ample provision made by this Act for the supervision of this department of the pablic service, and tho noble liberality of the Legislature in the sup.
port thereof. Underneath is a list of the officers with the salaries attached:-

Under this Bill the following appointonents have be:en matu by His Excellency the Lientennt Governor, viz., Hemry Fisher, lisql. Chicf Superintendent of Schools; Georgo Thompson, Clerk to the Chief Superintendent; Bedmund II. Duval, Inspector for the counties of King's, Alibert and Wesimorland; John Campleill, Inspector for the counties of Queen's, Charlotto nod St. Jolin; James MeLauchhan, Inspuctor for the counties of Victoria, Carleton, York and Sunbury; John Bunnet, Inspector for the counties of Kent, Norihumberland, Glocester nud Restigouche.

As the general Rovenue of the l'rovince has risen so has the Common School Service Grant. In 1853 it whs $\mathcal{E} 13$,-
 $£ 20,639$ 12s. 1d. ; 1857, $\mathfrak{£} 21,048 \mathrm{Ds} .6 \mathrm{~d}$.

It is intended to pursue the same course with the other British Colonies, with Great Brituin and Ireland, and wilh other countries, in subsequent numbers of this Journal.

## AGRICULTURAL.



## 1...-THEORY OF AGRICULTURE.

## AGRICULIURE VIEWED IN IIS RELATION TO SCIENCE.

Many seem to imagine that Chemistry is the only science that has to do with the pursuits of Agriculture. This is quite a mistake, It is no doubt true that the suceessful cultivation of the soil is mainly dependent on this Science, and especially on that branch of it known by the name of Oryanic. But there are other sciences on which skilful $\Lambda_{g}$ riculture levies a tribute,and fiom which it receives much supprort; nud theso are, principally, Geology, Vegetable Physiulogy, and Zovlugy. Int deed we know of few employments that invade so unicerally the kingdom of nature, or one in reference to which the application of science is so benceficinlly felt. One great object in this department shall be to trace this relation, and that not merely for the purpose of rendering the cultivation of the soil more productive, but still more for the purpose of exercising, and strengthening, the reflective powers of the thirty-flve thousaud of our population who are daily engaged
in this honormble calling, and thereby elevating and emobling the whole of the economic and social fiblic.

1. somolitums in its mear tion to amoloari

The Soil is the first care of tho hasbondman. This he tills, and cultivates, and weeds, and fromi this he reaps cho revrard of his habours. Amel whence aro suils derived? They are, primarily and in their inorgmie structures derived fivom the disintegration or crumbling of the rocks on which thoyelic.The air, the rain, the firest and other agents, tear down the solial rocks into very fragments, mind convert them into soil.But rocks aro essentially different in their unture, both mineralogically and chemically. Sumo comsist of granite, ofleers of trip, others of clay-shate, num others of linestone, \&ec. If rocks thus differ in their nature, it is obvious that the loose materials which aro formed by their decay must differ in like manner-must resemble in their mature ind composition the rocks on which they rest and from which they havo been derived. Hence tho matural ditlerences which aro observablo among soils of different distriets-and hence also the striking similaritics by which soils me sometimes funnd to bo characterized over large areas. From the crumbling of the granito rook, for exnmple, wo have comse, sambly soil, sometimes covered with a kind of black regetable monld ; fiom the trap, we have mo open loam, usnally reldish, rich and fertile; fiom the slatu rock, a clay more or less cold, still and impervious; from tho samdstone, an open and often a hungry smidy soil:And what is the conclusion deducible from all this? It is obvionsly this,-a close, interesting and practeally useful connexion letween Agricultura and the seience of (ieology. I an a Farmer and am skilled in the rearing of stock or in dary pursuits, or perhaps the bent of my inelination lies in the fattening of catle by roots, or, it may he, I have lind much expericnee in the growth of grain. I an desirous of immigntating to some unknown conntry, say New Zealand, where I wish to prosecente my favourite branch of Agriculture. And what an I in these circumstances to do? Am I to go thither add roam about, expending my time and means, till I fall in with the chameter of the soil most congenial to my propecetive employment? There is not the slightest necessity for all this expenditure of time and means, if there is a correct geological map of the country. That map which, by its different colours, represents the areas covered by rocks of different kinds and ages represents also the genemal mature, capmbilities and limits of the several soils to whel the firgments of theso rochs have given rise. And with thes map helure me, thergh thwasands of miles anay, I catu select dhe very spot most sultiable for my purpose; and fur this I an madebted to the science of Gcolugy.

## in. agmicultere in its meiation to organic chemistiry.

Not only are plants, stones andamimals mutually dependent, they actually resemble one mother in their mature, in their chemical characters. They all consist of two hmds of matter, to which chemists give the mane of organic and inorganic, or combustible and incombustible. But they resemble one another far more closely than his. For instance, it has been found that a soil which is so matuatly fertile that it will grow a long succession of crops, without any addition of manure, always contains in its inorgmic part an notable quantity of ten or cleven different chamical substances. These consthtuents aro polah, soda, lime, magnesia, alumina, sihea, ron, manganese, sulphar, phosphorus, and chlorme. buils whel requare no manure are thus constituted; and there are many such among the virgin soils of all our Colonics. Now, why must there be these ten or cleven substances in all fernte solls: It arises entirely from the fact hat the phant, when chemucally analy zed, comains nine or ten diflerent substances, wheh are exactly the sams as are preeent in the morgame part of the -oil. These substances are to be detected, in greater or less proportion, in the ash of all vur cultivated crops, and they are wholly terived from the suil. As the phant can get thene substances only from the soil, it is clear that the soll must contain them, if the plant is to grow in a healhy manner upon it.But thougla ciery phat we cultivate, tahen as a whole, leaves
an ash in which all the nlowe subtaneres ner to be foumd, eome phints contuin more of one substnuce, nimi others, of mother. Some contain more lime amd magnesin, others there potadn and somba, whers mere sulphur, or phosphorus ar chlorine: and has the general law appears to loold gexi, that under precisely the same circumstaners one kitul of rmp will usualig take up fixm the soil, more of one hind of inorgmic matter, another crop more of mothor kind. Atul nat ouly zo, but na diflirent parts of thg same plant comain theso substances in very different proportiona, su will thay take up more at one time in the growth of tho plant than they do nt mother.
'To secure, then, the full anil vigumus gmwith of any ono plant. thore must bo a compliven aflaplation of the contents of the plant to the eourents of the soil. And haw is the skilfut Fimmer to discover whothre this minghation rxists? Ito muat fiest of all chermically ambiren the phant, in onder that ho may find out its ingredients mad tho proportion in which they exist. 'Then he must aseertain the muture of the soil, out of which he wishes to take the erop of the phant he has thes analyzed, and hu guided neconlingly. If tho soil is delicient, ho must maku up what is nwating. If it enntring nay one substanco in excess he must embenvor to remove it, of, at noy mite, to comsteract its inthuence. It it is gencrally exhnusted, a manure munt be abled which shall conain and therefore convery to it an ndergute supply of all tho things which all our crops and all their parts comjointly earry off: If it is specindy cxhausted, tho aldition of ane or more of these substances will be sulliciont. So much for the relation which Agriculture bears to Organic Chemistry.

Vegetablo lhysiology, it is well known, is just a department of Phytology, or of the science of Botany. There nre two views to be taken of any plant. Wo may cither repard it in itself or in its relation to other plants. When wo do so, in the latter sense, we consider it in its resemblances or differenecs to the other hundred thoussnd species of plants that havo been discoveral, and that for the purpose of classification, denomintated Systematio l3otany. When ve regard tho plant in itself, we consider arerything nppertaining to its structure, its organs, and tho functions which these organsdischarge ; and this branei, gonerally speaking, is designated Vegetable Physiology: Now there aro tro classes of organs, those essential to vegetation or the growth of the plant, viz, the root, the stemand the leaf;and thoso cessential to reproduction or propagation, vix., tho stamins and pistils. In refurence to tho organs of vegctation, it may be stated that whilst they are all indispensably necessary for the carrying on of the nssimilative process, or the conversion of tho crudo juice into tho living vegetablo orgmism, in striking analogy to the digcitive, tho circulatory and tho respiintory on ans 3 tho mimal kingdom, they have cach a certain office to . erve. The root nbsorbs, in a state of solution, the minerul substances congenial to tho plant, and acts as a reservoir of nourishment for the plant the folloring spring, especialIy in the case of bieminal plants; the stem conveys tho juices and garves as a support to the leaf, and, in exogchoustroes, deposits that carbon, which is designed to accomphish such important purposas in Political Leonomy, in the whole manufacturing and commereial world; and the leaf, undor the influence of the solar mys, changer the erule juice into the very nature of the plant, whilst, at tho samo time, it aots as a powerful exbalant and absarbcut.

Wo havo been led into this train of observation, with the viers - oliciting the real use or oflice of the root. That organ takes up the substances which the plant requires, and this it does through the spougioles or rootlets. Jisery root, strictly speaking, has thros parts, the rootlet or the simall fibre, the middlo or fleoly part, and the collar or neck. The most important of theso is the small abro at the extremities of tho root brauches, called, as alrady mentioned, the spongioles. These, by the powrer of cupillary attraction, absurb the substances congenial to the phant, couray these substances, in a state of solution, to tho vascular tissuc, thence it is sent to the leaf through the altraction of the solar influence. Hero we would beg tho special atteution of the reader to the elective poser or instinct, if you
will, of thesespongioles. It has been nircally neticed that whilst all fants posses tho substaneos already cummerated, sonto roj quire a larger proportion of ono sulustanco than another, and that ono part of the samo plant requires a much inrger proportion of one sulstance than another; nad that, if plants do not receivo the substance ascontial to their growth, they will wither and decay; or, if thang do not receivo that particular substance that any ono part reyuires, that part wil' bo affected in liko mamer. Now hoir is tho requisto supply ndministored, nind that at the rery timo when tho exigencies of particular parts demand? It is ndministoral entiroly through thaso rootlets, which seem to possess a marrollous oloctivo poiser of receiving or rejecting acconling to tho maturo of the plane, pretty minol in tho axmo wiay that clominal olectivo afinity acts. An oxperiment tras onco mado with tho Min, that most graceful ornament of our Intervalos. A deop trench was dug around tho tree, so deep that it ponetrated boyond the rich allavial soil which that tree recuited. The rootiots wero soon to hos sech, desconding tho sides of the tronolh, nost to the trunk of the tree, till thoy reachod the bottom; nut, instead of piercing the stratum of soil thore, thoy orossed tho bottom of tho trench nad ase conded tho oppasito sida till thoy reached the very layer Irom which thoy hat been dislodged. This surely is enough to show tho relation which Agriealturo bears to Vegotablo Physiology.

## if. somicultume in its relation to animat physioded.

Animal Physiology bears the same relntion to the science of Zoology that Yequtable Ihysiology does to the serence of Botany. Noir, the soveral parts of the animal body leaves, when burned, a quantity of aslies. This establishes a general analogy botween tho plant and tho animal. But tho amalogy is closer than this. For, first, the proportion of this ash, varies in different parts of the numal, as it docy in those of the plunt. Tho frosh bono leaves ono-half of its woight, when burnet, the fresh muselo not moro than one hundredth part. Yet, ns in the caso with the phant, the smmll proportion present in the muscle, is as essential to its conatitution nud healthy existeneo, as the largo quantity in tho bonc. The composition of each part is specially adapted to tho purposes it is intended to serve. But of what substances does this ash consist? It contains the same substances aa are present in the ash of tho vegetable food whicls tho animal eats. Thero are found in it, potash, sodn, lime, manganese, oxide of iron, oxide of manganese, sulphur, yhosphorus, and chlorine. Thus the annlogy between the soil, the plant, and the animal, becomes closer and closer at every step.
fooking back for a moment at tho plant, wo now see not ouly that all these sabstances nro essential to tho growth and existence of the plant, but why they are and must-be so. In adorning and beautifying the earth, plants servo only a subsidiary purposo. It has, inded, pleased tho Deity to invest them with forms and colours, which aro grateful and refreshing to tho eyo of man, but to impart this gratification is not tho end or purposo of their boing. Thair function is to prepare and minisiter food to tho animal races. Now this function they could not perform unless they containod all that is required io build up the sareral parts of tho mamal body. Is it not at beautilul provision, therofore, that plants should be unable to grow where they camot procure that which it is their matural purpose and duty to procuro for tho animal. To the instructed car tho plant seems to havo aequired a voice. "I need not grow hore. I should be of ro use ill I did. I should only cheat the senses of the unsatistied aumbals, exhibiting the semblaneo without possessing tho substanco of its natural food." The soil, therefore, must contain all the substances wo have named, becauso tho plant rofusns to grow without them ; the plaut nust contain them all, beciuse the nuimal could not livo unless they wero prasent in the vegetable food. This, again, may suffice to show tho connection between Agriculture and Animal lhysiology.

We have nom, as briefly as wo could, indicatod the relation of Ayriculturo to Science. We have only glaned at the more salient features of tho subject. In subsequeat numbers wo shall resumo tho themo, nad discuss it in all its varied details. In the nuesu time no adduce a few infercuecs, which may tend
to show tho benclis arising from the soicntifio cultivation of the enil.
ist. It is clear, that if tho prineiples in the foregoing remarka were reduced to practico. an inimense amount of ammal labour would be saved. I'he cultivation of the soil wrould then hecomo almost ns oxnct as diso laws of combsing proportion in the seicuce of Chemistry.
and. Such a siylo of Furming rould ensure a vastly larger crop of overy kind of grain and csculents. And his agnin would affect tho wholo animal creation, adapting itself to tho dexign of tho F'urmer in tho mangement of his livestock.

3rd. It would enablo the tillers of the soil of'any couniry, to supply the mants of tho inhabitants of tho soil,- of the rholo popalation, oxcept in eximordinary cases of dearth or famino, which no wislom, or foresight, or power of mon could avert.
dh. This mulo of procedure would dignify and conoble all tho pursuits of tho llusbandman.

## II.-PRACTICE OF AGRICULTURE.

13y the practice of Agriculturo wo understand tho giving offret to tho principles wo have n'ready laid dorrn. All that wo may advance on this branch of tho subject shall be brought under tho tro heads, Gerural and Speciel. U'ider tho former wo shall comprehend all those employments of the liarmer that may lo performed at any poriod that may best suit his convenienco, though ho should aim às much ns prossible at regularity and order in all his operations, ns it is in this way he will not only necomplish tho greatest amount of habour, but what ho does will be inost bencficinlly felt. Uuder the second head wo shall cinbrace tho work, that in ordinary circumstances, should be done during the eurrency of tho month tho leriodical is issued. Hero we flall have to lack of subjecte, and hopo to be ablo to throw out some hints that may prove of practical utility to the Fiarmer, thereby not only largoly augmenting his temporal wellbeing, but elevating his whole socinl and moral condition.

Wo had prepared for insertion here an articlo on Surfuco Manuring, but want of space compels us to pass on to the special work of this month.

## grechl work foll tile montil oy july in nova scotid.

## Wecels.

The curso is still in process of fulfilment, "Thorns also and thistles shall it bring forth unto thee." The land must be poor inded which does not at this season of the year produce an abundant supply of weeds, which, tike the corrupt principle in the human heart, too often shoots far ahead of the crop sown. In Nova Sootin, whether in the fields or gardens, their growth is aunazingly rapid; and, unless destroyed before the crop reaches any stago of advancement, bid tuir to master it altogether. As the seeds, then, generally grow much quicker than the seed sown, it is of the greatest possible consequence to rid the ground of them even before the crop makes its appearanco. As in the case of animals muels, very mueh of their growth and perfection depends on the way in which they were treated or minsed when young so is it with vegetables. If the weeds are allowed to grow till the plants aro in an advanced stage, the soil is robbed of those very substances which the plant requires, nud robbed at the yery time when it is most nceded. Jessiles, tho plants being dravn up by tho weeds, assume a spindly enfechled form, which materially affects their whole future growth. It is therefore in every way necessary for securing a good crop that the weeds bo carefully pulled out as early as possible after they mako their appearance Of course we hero principally refer to thoso weeds that are annual. Tho perennial weeds, such as couchgrass, bishop-wced, \&e., \&ic., ought, if possible, to he thoroughly cleancd out of the land before it is cropped; and, if this camot be done, it were castly better to allow the field to remain unoccupied, or fallomed and thoroughly morked during the summer. There cannot be a greater waste cf time and means than to sow seed or cultivate the soil when it is foul or thickly studded with'perenuial weeds. It is neither doing justice to the seed,
nor tho soil, nor the manure, and tho pmiluce at the end of tho year will funish but a yoor romuncration for the toil of tho Ilusbandman. It is otherwiso, howover, with annund weeds.'there is no way of extirpating them hutly pulling them up or hocing them out of the ground. Somo thank it enough to cut then down either with the reaping hook or soytho, but this is just to perpetuato tho ovil, by converting the namual into bionnial plants. Ilhoy ought to bo thomughly rooted out, and that, if possible, on their lirst appearance.

## Hocing ant Thinaing.

This is a mattor of tho greatest consequenco in all greeti crops, and cspechally in tho caso of biennial routs. It do:s not maltor how well tho soil is cultivated, or how suitable tho fiertilizing melin to the maturo of the soil ami of tho orop, if tho hooing or thiiming procoss is either partially nuglectod or dolayed till too late.

1. Tunsits -This is of the greatest importanco for the Turs nip eroy. If tho 'huraips are not thinned nt tho proper timo, nud tho hooing not judiciously attended to, it will affect in a fur greator oxtent than is genorally supposed tho wholo futuro produco. Now this process of llimming to bo dono elfectively, should consist of tiro stages. Tho firsi stago oight to bu whon tho leaf of the plant is almost two inches in length. io faelitatu this procesa, us well as to allow tho air a freo admision through tho soil to the routs, tho plough ought to bo run up tho drills, remnving the earth about two inches from tho young phats. This carth will thus cover tho weeds between tho irills, which, hy decomposition, will earich tho soil. Tho hand-hoo should then be tahen nom the Turnips thinned about fire inches apart. Some hoes are the exnot width. When this is thacaso tho rork cin bo much more expelitionsly gono about. Tho more the roots aro loosened and exposed tho bother, asit:admits a free circulation of air and urges tho rootlets to push out nuil grow, and therebs to bring a greater supply of nourishment to tha bulb, as well as to fix it more steadily in its position for future growth. When tho plants have grown considerably, and tho leaves begin to touch one another, it will then bo necessary to give them another thiuning, removing every alternato plant and thas leaving them about ten mehes asuader. When tho land is very weedy tho horse-hoo should bo sun between tho drills onco before and once after the second thimaing.
2. Masgorid Wuntafl.-This is n most valunblo csculent for cattlo, and, frem tho large quantity of saccharine matior it coutaing, of special benefit to milch cows. If sown in drills, pretty nearly the same process may bo gone through, as with tho 'lurnip. As to tha distance between plant and plant, much hero as, in olher cases, depends on the claracter of the soil. If it is rich and well fitted for tha growth of biennial roots, containing a sufficient supply of the alkalis, the distance may even extend to fifteen inches with advantage to the crop. It is the wort cconomy to allow plants of any sort to crowl each other-much of the foliage is thoreby deprived of the free current of the atmosphorie air und of the solur rays, and the crop is ucither so large nor so good.
3. Camots.-In the culture and management of the Carrot every means should be cmployed to render tho soil as friable as possible. The ofiener the plough and horse-hoe are rum through the drills tho better for tho growth of the root. There is no utcessity of thinning the Carrot moro than 4 inches apart.
4. Panssus.-'This valuable root shouli he thimed as soon as the plants appear one inch above the ground. 'ilicy ought to lo cight inches apart.
5. Potaro.-This is the month for morking the soil in which this most valuable esculent is growing, and the more thoroughly it is worked, the more productive will be tho crop. Perlapss there is not a department in $\Lambda$ grieulture where the labour of the Husbandman will be more amply remunerated than in tho cleaning and cultivating of the young lotato plant. . This arises from the very nature of the tuber itedf. It is not, as many imagine, a root, but a subterranean stell, every ere, as it is called, forming a distinct bud. And what is every bud, whether on the stem or branch, but a distinct plant. What is every tree of the forest but a repetition or multiplication of buds.-

Nor tho bud derives no emall portion of its nourishment from tho atmosphere, and tho more, therefore, that tho oro or bud in tho sabicrrancan atem of the Polato is lirought in contact rith tho atr tho larger and moro nutritious will bo tho collulartissuo nround. And what methord should bo pursued to effect this? The earth ought to bo frepuently loosened or stirred up, and raised high on tho nerinal stalk, so as at onco to admit a freo circulation of air and give encourngemont to tho formation of now subterrancan buds.
0. Ilat-howiso.-]leforo nnothor number of our Tournal bo issucd, the time may havo arrival, in the moro carly situations of tho Province, for tha culting of tho artificial grasses and proparing then for beitug stored in tho lharns. A mort or two had bottor noir bo alvanced, touching tho timo that tho grassos should bo mown. Glaring mistakes are committed by not a furr, on this point. Their great object eecms to bo to obtain a bulky crop, nid thereforo thoy allow thoir Limothy or liyegrass to remaia long after the flowor has dizappeared, ovidently ig. norant of tho fact that what they gain in quantity thoy loso in quality. Jivery ono nequainted with tho laws of Vegetablo Physiologs, knows that tho flowering process is exhaustivo, arising evidently from tho nature of tho substanco oxhaled by tho flower. Tho leaves of tho plant oxhale oxygen gan, and henco a copious supply of this supporter of animal lifo is thrown off into the atmosploro; and lience, too, tho mistalo that planta in tho bed-chamber of a delicato consumptivo porson are, under any circumstances, injurious. Tho florers, on the contrary, oxhalo carbon, thus depriving the vegetativo organs, tho root, tho stem and the lear, of a considerablo portion of their strength, and especially of that substanco which, in a climato liko this, with its sovere and protracted winters, is of peculiar value.There cannot therefore be a doubt that the liest time for cutting the arluficial grasses is just when the flower-stalk has reached its hoight and is about to burst into blossom. It may no bo very oisy to fix thant time, when the Inny Crop is mado up of matural grasses, as is tho caso in almost all our Marshes nnd Intervales. But there is no such difficulty in the case of cultivatel grasses or cluvers. des, then, the Sugar-Cane Plantor carefilly observes the time when that valuable plant is on the eve of flowering and orders it to bo cut, so ought the Farmer in reforenec to his llay Crop. Wo may alvert to the matter of Hay-making in our noxt. Let it suffice in the mean timo to notice that tho less tho Ilay is bleached by the rain or exposed to the ovaporating influence of the summer sun, and that tho greener it is lodged in the l3arn, provided it be thoroughly dried, the more nulritious will it bo for the cattle.

Want of apace compels us to leave out altogether tho Morticultural Department.

# Just Published---Sceond Elition, DIRICE Is. $10 \frac{1}{2}$ al. THE GLEMEN'SS OF GEOGRAPHY: ADRPTED FOR USE IN BRITISI AMERICA, HY HOCO REID, <br> Author of "Tho Principles of Pilucation", do. - Principal of Dalhousio Colloge, Ilallfax, Nova Scotla. <br> TIIIS WOLII is on tho samo genoral pian as tho mort approved Schoul Geographles in uso in Urent Dritain. It cuntains tho Oeugraphy of tho lending countrice of tho rorlh, whes copinus dotalls on Tris Unirxn Kisa-  tronomical axd l'byaical Qeography. <br> Ilalffax :-SOLD IBY TIL: DOOKSELLERS. 

GAMIIIELL and TUPPER,


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 IMPLEMEN'IS AND MACHINES. Al.SO-Gardon, Fiold, and Flower SEEDS ;
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