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PHOVLNOLAT NOLHAL, AND MODDL BOEOOLE, TEURO, N. B.



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Mmaifax, Nova Scotia, August, 18 gัठ.
No. 2.

## EDUCATIONAL.

## 1.-.-THEORY OF EDUCATION. PIIXSICAL EDUCATION.

In our last we presented an outline of the suhject-matter of education. We showed that, in accotdance with the primary signification of the term, the education of the young consists in the developing and strengthening of all their energies and powers, and that the grand and only specific for effecting this object is exercise or the practical use of all the organs of the body, of all the faculties of the intellect, and ofall the properties of the conscience. We specially insisted on the necessity of exercising all these powers simultaneously, and that mainly on the ground that it is impossible to do angthing like justice to one and all of these componeut parts of our being, unless they are, in their use, all blended together in one harmonious rhole, unless, in fact, the young aro trentcd just as they are, with body, intellect and conscience in inseparable union.

We proceed now to view these great branches of the theory of education, separately, taking up, first of all, the subject physical education.
The body, ns is well known, is possessed of sarious parts, which are called cegans or instruments, because they perform
cortain functions or oflices. Whesé orranns, in so fur as tho educntor is concerned, may be reganded under so many elnsses or syatems ;-the nutritive, the supportiug, the cutaneous, the locomotive or muscular, and the nervous; and by phyaical education, we ure plainly to understand the enlarging and consolidating of all these organs, by the use of legitimate and appropriate means.

This is a branch of education just beginning to receive the nttention and to assume the position to which it is entitled.The ancients, and partirularly the Grecks and Romans, cultivated it very extensively ; indeed, this constituted the chief burden of all their educational work,-their object being more to qualify their youth for athetic fents in tho Olympic and other ganees, for valorous exploits in the field of combat, nud for gatient endurance of hardshin and privation in the prosecution of their military pursuits, than to impart knowledge or to cultivate their intellectual and moral pawers. Now, whilst there cannot be a doubt that this educafion is well fitted to give vigour and strength, as well as gracefulness of attitude, to our physical frame, and thereby to act as a powerful pro. servative and promoter of its heallh, it wore to take a vory limited and circumscribed view of the whole subject to make this its grand aim or its sole olject. Whysical education is of immense consequence in the training of the young, lut it is so mainly as a means leading to grent and importint enda. And the principal of these are the arresting and keeping up of the
nttention of the young luring their varied exnrciage, whether accular or religious, ami thereby securing a far larger amount or insellectual habour; nut, Etill more, the atrengthening and assisting of mome training through the cultivation of habies of orice and physical obedience And whenee these ranalts? IIsiniy from the union sulusiating leetween tho bexly mad the mind, the aymunthy thery havo for ona amolhor, the way in which the body operates on the mind. We are ntterly ignornut, it is truc, as to the monde in which matter affects mind or mind matier, but that thay do net nut re-nct the one upon the ollier, and that in the most extensivo and porerful ammner, is a trulh which no one, wo bolieve, will venture to dian pute. If, then, the lorly exert such a poiverful influenco over tho mind, if tho henith ned activity of the boty tend so oxteneively to the henlli nad netivity and power of tho mimi,$n$ Irutl which will bo cuerensingly unfolded as wo proced withs our sulyect,-it becomes a vastly imprertant question ns to whate is to be dene, ko ns to seenre mid preserve amilextend tho former, thas full senpo may be given to the latter. Wefore we nre in a position to maswer this question antisfictorily, wo must be well aequninted with the mature of the bextily organs themselves; we mast prasecss some knowledgo of their anatomy, their external contiguration, the havs that govern then nad tho functions they perform, both individually nad collectively. It is on this necome wo insist on these brmences of knowledge as indiequenably necessery in the professiomal training of the echoolmaster. If the tralemmi, however dexteri; ous and skilful he may bo in tho itse of his took, occupies n combandiug vantage ground, when ho knows thoroughly the nature of tha material on which he is operuting, so is it with the educator. Ilis great business is to operate upon the imellect and conscience of his pmits, and ns one way of doing this is throught the melimen of tha bobly, it is perfeetly elear that, if ho would use thia way uffectively, ho must bo woll ace quainted will its orgnas in all their bearings, and relatiomahips and dependencies; in other world, he must be consersum with animal physiologg.

Now it is in this very relationship that wo propose to dis. cuss the whole suljeet of physical education. We shall lay down ecrtain groprositions phainly deducibie from the claseses or sjatems of organs nutverted to, nud in the orler in which they are mentioned, and evolving great and important points on the branth of our suljeet now mater considerution. In the remaning part of this article we shall merely sketch these pro[msitions, und in future numbers discazs them seriution.

Propresition lst. That it is the bounden duty of all inter. celed in the rising generntion, nad specially of paremts and teachens, to ase every means for the growith mad development of the various parts of their bolity frame.

This proposition is founded on the nutritive system of organs, or thun system on which tho whole process of assimilntion depends, comprehending digestion, circulation, and respimation. Wonderful indeed are the chnuges through which the food that we take passes, before it becomes part and parcel of narselves, and dillised through the body in a vitalized condition! lut wonderful though they be, they are indispensubly necessary for the nutrition and growth of every part of our phosical mature. The great pmetical points involved in this propasition, in to far as physiend education is concernevi, are the ventilation and temperature of school houses, the provision requisite for securing theso essemtial elements, essential alitio to the Matiter mal the Echolar, and which, if me-
attentied to, sets at defance nill the efficieney mul experience of the former, and all the tiligenco and pereovernuce of the latter.

Xroposition II. That erefy menns should be employed for the purpese of imparing size, solidity and strenght to tho supprorting eystem of orgmis, in the young.
llere we shall have accasion to consider the neture, tho comprasition and the uses of the hones of the human epecies; nud this, "gnin, will bring under our notico tho wholo eubject of the constraction of seats mud benches in selvols, lieir being graldel accoming to the sixo mill nge of the scholars, \&ec, ikc.

I'roposition III. That children otught to bo trained to limbits of cleanlinoes, nealness and orier, not morely for tho saku of decency and propricty, but for tho preservation of the health and the invigoration of tho physical frame.

This proposition is founded upon the cutancoms aystem of organs, mad will maturally lead to the considerntion of its functions is the most powerful absortent and exhilanig, and the consequent necessity of presurving the skin in a state of hendilifal circulation.

I'roposition IV. That overy schoolmaster onght to provilo a due supply of out-door and in-door plysimal exarciees for his scholares, and that the later bo interningled with their intellectual and moral educntion necording to circumstauces.
'lisis is the most important of all the propositions we luvo atintel, nad that becanse of its direct and immediate bearing on intellectuad and moral colucation. It will demania a thorough manjsis of the locomotive or muscular syatem of orguns, more esuecinlly the great lave of tho muscles;-namely, relaxation mad contraction, or reprose and activity ;-and the operntion of this lave upon the bmin, the seat of thought. The indoor exercises are such as reading all together, singing, marching, simulaneous rising up and sitting down, the four motions, de. 'These exercises must be varied to a certain extent every day; and are ns neecasary for tho juvenile and more ndyanexd sections the they are for the initiatory; only, in the latter ease, they require to be more freguently repented. The outdoor exerciscs are grincipally tho circular swinge and gemnastic posts, though often games may boadded, such ats hamdball, buttledore, la grace, skipping ropes, marbles, large china bowla, de., \&e. In all these exercises, the trainer himself niust show the example;-indech, without this, one of the main beneftes of the in-door exercises would not be served.
Propasition V. Ilmut every muats siould bo uscd for securing the healhful and vigorous alevelopment of the nervous system of orgims, not merely decemse it is the highest mad most refined part of our physital constitution, but because it is the sent of the anind, that substance which feels and perecives and thinks and directs, and, in subservicney to the accomplehment of whose purposes, the whole bodily organization has been fishioned.

Thes will involve the consideration of the anatomy of the whole nervous system, the uses or functions of its various parts, and still more, the conditions on which the licalli of the brain principally depeads, viz, a sound hereditary constimtion, a due supply of well oxyscmated blood, and regular systematic exercise. Aud ath this will be followed by the laying down and expounding of certain rules to guido and direct in this exercise, io csisential alike for the health of the body and the expansion of the mind, both intellectunlly and morally.

Such is a brict outline of the course vee intend to puraue in the discussion of physical education. Much has beear written
of late both on this and tho other side of than Athatic on the subject of Animal Dhysiologe, and there are fer sulijects more imporinnt, more interesting aud morv uscfin, It has been - said, and wo heliove with truth, that une half of the diseases -umber which the human family are labouring nrises from tho palpmbid violation of tho laws of our plysical mature, and that by reason of the utter ignorance thet prevails in refurence to theso laws ; and conld thero then bo a finer felld of philamisoo. py than is furnished to tho physician and others in inpparting to their fellow-enintures a knowlelge of tho laws of henith, and of tho means of nroiding thoso diseases to which thoy are more particularly exposed; nad in laying beforo them such information as eball be needfil, in order to tho highese improvement of their physicas organization, and tho imashission to prosterity of unimpraired constitutions. Would not this bo aeting out the principte in our physicul unture 50 universally admitted in reference to our mornl, "I'revention is better than cure!" But bo this as it may, it is our deciled conviction that an immense nmount of inisapprehension, ignorance nal secpricison prevails on tho suliject of physical education, nul particularly in its relation to intellectual and moral education; and us this, in our opinion, can alono be dissipated by the dissemination of sound views on the orgnas, the functions and the laws of our coproral aystem, on is it our intention in a acries of artieles to bring before our renders those fentures in animal physiology that benr more directly nnd imincdintely on the elucidation and importance of our theme.

## 11.-PRACTICE OF EDUCATION.

 SCILOOL ORGAVIZATION.Br School Organization is meant the systematizing or armuging of all external matters connected with a achool establishment. This supposes the pre-existence of a plan or seheme in the misd. In every enterprize there is great aidvantige to be derived from forechought, but perhaps nowhere is the ulvantige greater than in the business of tencling. Now though it may not be in the power of the Tencler to have a plan in his mind, spplientble at all times nad in all casees, yet there may and there ought to be a plan, in its, great leading limeaments, cupable of lexing modified or aliered necording to circumstances. One of the more prominent of these lincaments or features is the appropriation of every minute of time in which he is to be engnged in school. In such an appropriation respect must he had to three things, namely: the tine for recitutions, tho time for recesses, and the time for resting - or whispering. In reference to the first of these points, it is our decided conviction that these recitations should not last
 with moore advanced than twenty or twenty-five minutes, "nd that two subjects or brancies of learning are sumfeient for tho hour. This will occupy forty minutes, lenving of the hour twenty minutes. The first ten minutes of this time may be given to music or marching, or both, or, if by any protraction in-the lesson the time is much reduced, to whispering; the other ten minutes at the end of the hour should be spent in the play-ground. Twenty minutes of every hour devited to such purposes may appear to not a few gltogether uraneasonable, or, to say the least, a great waste of time. So far from this being the case, we believe it is attended with nany nit; vantages. lly this arrangement, all interruptions luring the
recitations trill be avoided, and this is of immense consequenco both to Tencher and taught, ns it will cmablo then to givo their undivided allemtion to the subject in hand, and thereby to do amplo justico to it in all its bearings nud nspects. 13esides, wo beliovo that twenty or twenty-five minutes of severo npplication to ang ono subject, aml particularly when that sulject is in any way compliented or hand to bo understood, is as much as any chass of chilitren con anfely stamb.
The next point in the plan should to tho allocation of tho different studies for each recitntive period. And hero it may be observed, that every effort should first bo made to reduce tho elnaes in nuy ono branch of lenrning to tho emalleat puassiblo number. The tencher may not have it in his presrer to diminish tho number of the bmuches tnught, bat tho claseses, or the different stages of tho samos brumeh of stuly, ho can arerange in tho way that beat suits his own convenience, and tho aecomplishenent of the olject contemplated. And thesocinsses, I agnin repent, tho teacher shouhl endenvor to reduce ns much as possible. In some brasches, such na wriling, drave ing, mental arithmetic, and the like, if tho school is of a miscellancous character, he can havo all the scholars in ono class; -and it were well for nil partics concerned, did he oecasionally do this wih Jinglish Grmmanr, Geogrnulys, ive. At all events, he should strive not to have more than two sections in the sance branch. 'This will give him so much moro time to handlo the subject thoroughly, to bring it before his pupile, in all its diversified napects and in all its tggurativa illustrations, and thereby fix it in the understanding, even of the most sthpid mul obtuse. 13y this means, too, the sympathy of numbers would bo more extensively felt. In proportion to tho number of scholas will be the diversity of endowment and attainment; and whilst this will firnish a more powerful stimulus to nll, it will, nt tho same time, elicit the peculiar gifts of each. It were well, also, that the Pencher In this plan of arrangement has respect, in tho succession of study to which the attention of his scholars may be called, to tho nature of the subject in its effect upon their mental powers. If, for cxample, the first twenty minutes of the hour are occupied with a branch of studs that calls forth an unusual amount of mental energy, such as that of the higher dapartments of mental arithmetic, the second twenty minutes should be directel to a branch not only widely different, but to ono which will not improse such a tax on the energies of the mind. It is with an eyo to this that the afiernoon diet is generally devoled to those subjects that are more mechanieal in their nature. The number of branches and classes may be so great, that it is found impossible to overtake them all in one day, so as to do justice to each anal all. In such a case the principle of alternation may be introluced; that is, some studies may be recited Mondays, Wednesdays, nad lirilays,-and some other studies with other classes take their places on the alternate days. It is decidedly beter for the tencher to meet a clase, especially of older pupils, but twice or three times n-week, having time enough at each meeting to make thorough work, than to meet them daily, but for a time so short as to accomplish but little. Ihe idea is a mischicvous one, thât every class must bo colled out four times a-dny, or eren twice a-day-except in the case of very young children. It may be compared to nibbling at a cracker as many times in a day, without taking a hearly meal,-a process which would emaciate any child in the course of three months. 'Ehese scauty uibblings at the table of knowledge, so often and so tenacionsly practised, may per-

Lapen account for tho mental cinacintion so often discoremblo In many of our schmola.

The uext matter in this progeninino of the plan of armangement of tha $n$ fitares of $n$ school, is the occupation of hose classes which ne not engaged in recintion. this is one of tho grentest dimentios connected with achool operations, cupecially when linat relool is misellaneous in its clantacter, that is, tonde up of acholars of sill nges nom aize. It is comparatively ensy for the Iencher to eccure tho nitemion of the echolare ongaged in recintion exercises, but so 10 enlint the interest of those who tro not thus engaged ns inat they shall niply themselves with diligenco and perseresmice to their studies, is a Inek with which nono but tho most skifful and experienced teacher cint anecesafully" copre. Here, loo, regular simities for enchasection must bo preacribed, caro being of coureo baken 10 exclude thoso bmachat of aludy which were required to be learned out of achool. It wero well, ton, that thoso satudies wend required to be learned thas are next to bo recited, and that they be of auch $n$ anturo as that it is uecessary to commit then to writing or to the alate. 'These private aladies ought to bo as diatinelly known, nad occupy as prominent a phaco in tho programme, ns tho recitation leasome. 13 nt, uner nill, much of tho suceess of these privito studies will depend on the genornl charneter or alyte of the tenching: indeed there is nor, perhap, in finer test of tho whole character of tho tenching than is furnished by the conduct of the scholars in the grosocution of theco private studies. If their minds havo beentruly nwakence,-nnid this can only bo tone when that node of tenching is puraued which trents them as rational, hinking beinge, which nims nt the development of their mental powers in the commumiention of the mose valunble knowledge, and this can only bo dono when a clear and vivid idea of the subject is impressed on the mind through the niel of the perexptive faculien, or tho hnowledge thay lurre alrendy ubtain-edi- then linle dilliculty will be experienced in securing the diligent application of the selutars to tho leasons prescribed. If, on the contrary, the whole style or chameter of the school is mechanical, or comsisting of mero rote exercines,--if compamively lillte is done on tho part of tho teacher to accommodute his instruction to tho mature and understanding of his pupils, all negulations and arrangements and prescriptions of staily will prove at but litile avail. The whole of the lessons will be a dradgery, and the pupila, instead of beng interested in their stuliee, will evince every desire to get their neek from under tho yoke.

Such are a faw of tha leading linenments of the phan which every tencher ought to have in his anind's oye before" ho puts his hand to the plough. There nay be great diversity in the phan, und the best phan may, within certain limita, be modified by external circumstances, but that there ought to bo sonvo plan tuust bo appurent to all,-if nay systematic and substantinat work is to be performed; - mind nuly plan, even ithe most imperfect, is infinitely better than none. And now we shall supposa that the tencher, having entered into nn engagement with the Trustees, is realy to commence operations, and to give embordiacme nud lifo to his phan, whatever it be. What a critical und eventful step is this, nad all the more if it is the beginning of tho tenchar's career as such! What momentous consequences involved both to the tencher and the seholars! How benulifully does D'nge, in his own gentle and impressive manner, describe the seeno:-"If angels were to visit our carth and hover unsen aromd the gatherings of mortals, to

Enrver their actions and conlemplate their deatiny, as effected by human instrumentality, is seems to tho liero ann bo no spectacle su calculated to aurken their interest nol enkinullo their as:upatiy ns when they eee the young anthering logether from their scaltered homes in somo muml disirict, to neccive in impreses for weal or woa, from tho hanil of fim who has undertaken to guide liemb" Miluch here, as in overy ofler underinking, dequeuds on a fnir siarting, And in onder io socure this, ns far ne human instrumentality is conecraed, we would atrongly recomment the propricty of the tencicres visising the sellement or diatrict a fove dings befory ho commence opermions. Ilo should, if pasilie, mako a thorongh visitution of all tho familios of the districi, light mad low, rich nud poor, ind coiverso frecly both wis parentas and childten, so ns 10 gather up as inucla information as paesiblo respecting tho chucational condition of tho locality. By this sncmus he will become aequanted rith tha viuws of different partioes oll tho grent subject, for the promotion of which ha hins come amongas then, is well ins witi, the state of progress of the young ont tho manter of elacation. liy this maus, too, ho will enjor tho opyormaity of pointing out to pareate nad olher influcutial individunls tho mature of his prosition, the responsibilities of tha athes ho lus assumed, his views on cilucation, hoth theoretical and punctionl, nud of yressing on them the indispensable necessity of their co-aperation for tha furthernuce of all his phins and projects. And whitst this course vill furnish him with sunch ruluable information, it will at tho snme time spread a etrong prequssession in his favour; at all events, it will convoy to chose annongat whom he is going to labour the impression that he is decply interested in the work in which ho is about to engage.

The day appointed for tioo opening of the school has arrived; and whut lins first to be done by the young teacher?Ife onght to be at tho school at least an hour before the time fixed, that he may have nll in readiness for the enrolment of the scholars, and for the reception of nuy statements that parents or uthers sany have to offer on tha occusion. And it were well ever abler, that the seacher bo in atendanco at least one half-hour before the time appointed for commencing work. This will establish punctanlity on tho part of the acholnes, and effectually prevent any concerted netion annong them at that hour to cmbarraks his govermment. After the dovotional zervices are over the tencher shouh proceed, at once, with calmness, nud gentleness, nud decision, to the work of classification. This can only be done by a thorough testing of the qualifieations of the pupils, and for shis, "general examination is necessary. This is pertinps, on the whole, a better course than allowing them to tako the prosition and class they previously held. Ilaving ascertained gencrally their attuinments, so as to be quite able to divide then into two sections, he now endeavours to get a more precise knowledge thereof, by giving out to cach of these sections some exercises more and less advanced. After due time for greparation, he hears thio recitation of these exercises, and is now in a position to divide the whole thirty or forty scholars, of all nges, into three, or, at most, into four clasece, though ho still occasionally exercises them in two sections, and these, on the same brnnch of knowledge, at one and the sume time. He now Uraws out a progrumme of time, recitations, matudics, recesses, rests or whisperings; suspends the samo behind his own phatorn and as near the time-piece as possible, that he may be reminded of the importance of punctuality; announces to his scholars that
this programme, in its lesding features, is 10 guile both him and them, so long as their present relation subsists; nud then combences operations. Tho echool maj now be snid to be organized. There are, howorer, points connected with tho mnnagement, or the full enrrying out of thisarmngement:--such as review, giving out lessons, hearing recitations, dec., still demanding our attention, and to which we shall recui in subsed quent numbers.

## III.-OFFICIAL NOTICES.

Though the Normal School 13ill has been in operalion for upvands of four yeare, it is much to bo feared that no amall nuount of ignomuce still provnils in reference to somo of its provisions. On this acconilt we have resolved to ineert it in our Journul, that nil, and oapecinlly School Commisaioners and Normal School studente, may have an opportunity of consulting it when necessary:-

## AN ACE TO FS'RABLISIL A NOHALAL SCIFOOL.

 (Pasped line 3 las day or (farch, 18St.)Bo it enactod by the governor, council, anil asombly as followe:

1. A Normal echool for tho training of teacherr, shall bo founded in a cecural and convenlens locality.
2. A lluilding fur auch purpose, provided with all noressary furniture and appmitatus, shall bo oructeal under the direction of comsmisioners appointad by tha govarnor in council, upon a silo, and atcording to plans npproved of by the governor nind council, mul such commissioners may draw froin the truasury, for the cost of tho building, with its furniture and site, a sum not uxeceding ono thoucallu pounds.
3. Thu teachers of tho Normal school aliall bo a principal appointed by the porernor is council, who shall suporintund the dormal and modul seliools, and leach such clarses an he may deum noecssary, and shall also bo superintendent of colucation, mind ahall recuivo a salary of threu hundrud pounds per nonum, and iwo assisiants, chosen by the principal, with tho approval of thu gorernorin councit, and who sliall respectively recelvo salarice of ont buadred and fifiy pounds per annum.
4. Tia superintentent may Uraw annually from the treasury a sum not exceeding one hundred pounde for expensua of fuol; ropaire, and books for the Normal eclicol, ant the expe su of tenehera' mastitutes, the expenditure of which bu shallannually a ako return of to povernument.
5. Tho school ahnill bo under tho management of a board of five dircctors, appointod by the governor in council, who shatl frame tho byedawt, and regulations of the institution, and arrange tho length of its terms of instruction.
C. The principal may untur into arrangements with the trustecs of schools in the pilacu in which the Norinal school eliall bo situato, for the purposo of having such schools used us anodul sehoolsin whuth pupil leachers from the Normal echool may practiso the art of tach. ing; provided such model sebools sball bo maintained in tho asma unanuer as ir they waro ordinary schools.
6. The course of instruction in thu Normal sebool shall bo simi. lar to that in tho Normal achoola of Upper Canadn, Now York and Mlaseachusuits, or as nutrly approaching thoreto as circumatances will perait.
7. Eisch board of commissioners shall havo tho right of eending to tho Norasal sehool, at the e:omusmernent of any of ite terms,one pupil, citherinalu or femalo, for every one handred pounda receivdd by the board from the provincial trassury, and if necessary, they chall aid such pupils from the provincial grant at their disposal, in paying their travelling expensts to and trom the Normal achool, at the rato of three pence per milu: provided that sach pupils, shalt not bu leas than sixtcen years of age, and of good moral character, and shall have received an orlinary common sechool education before the commissioners thall give any order or ordera for their admision to the school-such pupila shall give to the principal a writlen pledge that thoy will teach for at least three yoars within this province.
8. The principal of the school may receive an aduitional number of pupils not exceeding twonty in any one ycar, on their being exacmined by him and giving the necessary pledge; and all licensed teachera shall havo accees to the selool, either as apactators or regular pupils. Instruction and the use of text books aball be free to all pupils.
9. The principal may almit pupils not intending to teach in
this prorinco, at such ralos of fees an hn mar think proper, such fres to bo applied in improving the apparatis of tho selool: proviled no greater numbine of arich pupils than ten to bo in aften. daniso on the echool at any ould timo.
10. All pupils ahall bo oxamined ty the principal afoer laving attenifel thu achool for a tern nol less than five monthe, and if competent, shall recerva certificates as grailuates of the wifool, such certificates shall bo of thres claseas, lonominatel. A, D, and C, according to the enpacity of the gratuate innu pupily, whe, anter baring aluilici one jear, shall bo found incompetent to act as teachers, may bo dismised or receiro insfructions for a second lurm at diguretion of tho principal; and such gramluntes as may bavo voceived cortificates of tho class A ur 13, may bo almitted anow, and after attenting for onu or moro terns shall receivo a eertificato of such class as upon examination thor shall bo found entisled to.
11. Any person holling a certificalu from tho prinelpal of the norumal scloolaliall to eutitled to a licenso from any lomatiof come missioners unless tho holdur of suds curtificato bo of bail noral cliaracter, in which case, sosoon as tho faut of any pradualo having contrached inmoral liabits in mate known to tho principal, ho shall orneo the name of suely pureon from his lish of graduates.
12. Tho principal shall havo tho prower of seating, ns freo efte. donta, to any collegu or nuadengy recuiving provincial ail, pradutes of the normal sehool, who may desiro inatruction in mathonatios nul classica, with tho viuw of becoming enenchers of high echools: provile:l that no auch institution be required to giva instruction to criore than threasuch pupils at one fines.
13. Thero shail bonnn ampual publice examination of such pehool.
14. 'Tho principal of Hou Normal school anil his assisiants shanll bo oxemped fom the perforunance of atatutu falor on the highways, -from militia duts, and from verving in any town ollise, or on junus.
AN ACI TO AMEND THE ACT TO ESTABLISII A NOHMAL, SCHOOL.

## (Wassel tho lat das of Stny, A b. 1837).

Ho it enacted by tho Gorornor, Council, and dusumbly, as follows:

1. Tho model achoole now in coursu of ercetion at Truro in connection wish tho normal echool, slinll bu comithend as ant integral part of such normal echnol, and shall be undur tho controt of itso commissicnera of that institution.
2. Such model whoole shall bes recognized by tho boand of achool commiseioners of the county of Colchestur propiner, as thu sehoole of tho district, and ylall be ontitled to all she righta nond immunitics appertaining thoroto, and tho bounds ofthu distrite shall bo fixud by suth sehool commissioners.
3. The teachere of tho model seliool shall bo chosen in tho samo manner as the ecachera of tho normal schowl, and ahall bo under the same management and control.
4. The tuachers of thu primary, juvonite, anil high selinols ahall recoivo respectively fifty prounds, auventy-five prounds, and ono humbred pounde per anmun ; and tho sun now payablo to shoneademy at Truro, logethof with a graint of twonty five pounds to bo made by tho mehcol comaniasionore of the district, nad a further sum of one bundred pounds to le draxen annually from thu treasury, shall be the eourio from which this endomauent is durivable; and when the fees to bu receivel! from schulare shall yiuld a sulliciens funt. the salaries above montioned shall be incruased to one hun. dred pounds, ono hundred and finty pounds, and two lutided pounde respectively; and the surplus of zuch focs shall bu appropriated towards tho general improvement of thu model schools, nad an account of the expendituto of such murplus aliall be rene dered annually to the tegislature.
5. The superintendent of uducation is authorizel to draw up a codo of rulen for the regulation of tha modul meliools, such code of rules to buaubinited to the commissionera of tho normal school and receive their sanctiou beforo poing into opuration.
6. The principal of the normal echool sball be empowered henceforth to grant diplomas as wall tor grammar schools as for common schools, and the time of attembance and amount of qualifieation of overy one intonding to groluatu for a gramuar selsool diploma shall be fixed by the commissioners of the nermal achool
7. The sixth and serventh chauses of chapter five of the acts of 185.1 ontitled "An net to establish a normal school," aro repealed.

## BYE.LAWS OE PROVINCIAL NORMAL SENINARY,

1. As tho main object of this Institution is to prepare and qualify Teachers of common Schools, as wull as to improve thote who have been alresdy engaged in teaching, that the courso of atudy. tho conditions oi admision, the qualifications of graduations, \& Cli, shall accord with that object.
2. That the firat Autumn torm shall commence on the first Wef. nesday of November next, and terminato qn the last Wednexily of March; that the Spring term shall commence on the secold

Wemincular of April, and that the duration of this and mbsenuent terms ligantremanls arranged.
8. That the Superinlenilent at tho clom of erery Ierm, phallap. prize ench lhand of Ehool Cummikioners al tha number of racancics in te supplims lir it, and aball apecially inatrace tho Come mixdonere to two all bitizence in empuiring anter tilented and promising young men anf women resiling within their rempectiva boumita, and in enmurnging lism to prowente their aluilica, Fillin viow to their atfmeling tho Dionmal Schmol-I Ihat the Comminuonere alall regure from each applimant a certificato of moral character from tho clergerman or miniater of then neligions ifenomination 10 which ho Leionge, and that they firnish rach pupil with n cerlificate of his appointment, to to piresented to sha l'rincipal on the day $f \times$ erl for tho oxamimation.

1. That all apylying under ecetion oth of the Aet, if fonnil qua. Fifcl, As vell an all licengel Tenchert, shall live mimitted in sho ordee of their applicntion.
B. That all applying under eretion $10 h_{1}$ ehall be receivel in tho onler of lieve application, on atanding such an cxamination as tho Trincipal ehall ilectn sutisfactory.
C. 'Itiat notio aliall be adenitted uniess they present themadres wibin and reck of the timo of the opening of the Seloool.
2. That all catudidates for mibismon msiain n salusfactory examInntion in roading, apellings, the pimplo tules of arithuetic, the elomenta of Geozrapity, and of F.aglish Grammar.
3. That all pupila on aldmission shall be required to aibeneriben the follominge declaralion.-- We, ilia aulecrikers, horelyy drelare that It is our intention to devoto autr es to the profession of Teaching within thin l'rorince, for thrco yeara at lrast. and that our mole ob foct in altemblag thas Normal Srminary is to qualify ourselves tho felter far tlacharging the important tuites appertaining to exill pro. fremion."
4. That certifieater, under acetinn 1 the of the det, shall in the
 aubscribed by tho l'rincipal and loand of llinectors, alaill be grant: cd to atl pupils found qualifiet etn tho rarious auljecta preacribed ly tho I'rincipal, and inai all holding the certificato 13 alall lee entilleal to the privilegen of a lirirat Clats Common Sehool Peacher.
5. That each J'upil entiled at tho cloes of tho first term to tho certificate of Class $\mathrm{Ib}_{\mathrm{n}}$ shall roccive, out of tho funda gratited by tho Jecpislaturo to aid pupile for tho firat jear, a acholaiship of \&B, and that cach pupil notitled to a certificato of clase A., shall receivo a unilar meliolanhijp, on condition of allending tho following term, payablu at the commenceuent of that term,-2nil that such scholarphips aliall bo granted only to thowe pupila who hare buen recommendel by tho ilosrifs of School Conmixetdners, undur section 8ih.
6. 'That all 'Jeachen rein-trnining shall boatd and lolgo in such houses, and undor such regulations as aro agproved by sho l'rincipal.
it That all pupils attending tho instisution alanil bo required when practicable, to nltemi lheir respective places of woralip on tho l.ordia day, and wait on such means of religious instruction as the Clergymen or Ministery thereof ahall sco fit to appoint, and that
 befure any iliplonia is pranted.
7. That the requiations for tho internal management of the Institution bo prepmred by tho I'rincipal, and submitted to tho llaard of Directorm at lis first tuecting.
8. That tho Lloard ahall mert regularly, on tho day appointed for cach meini allinual examination, abll that ppecial mectings may bu called by tho Sercutary, an the application of the superiniend. cnt.

## POSITION OF TEACHERS HOLDING DIPLOMLAS FHOME THE: NORMLL SCHOOL

Considerable diverxity of opinion scems to exist amongit the llonnts of Schowl Commissioners on thin point. The innjority of Bonnls, we believe, do not exnmine the Normal School Graduntes who come amongit them for the puriwese of engning in tenching, but neconl them a place in their list, corresponding with tho rank they hold as Graduates of the Normal Schowl. Ghar lbands, however, examue them ani give them a position neconitug to their view of their qqaalifications. And oliers, ngain, zeens in great dubiely as to how they ahould net in the matter: whether they should examine at aH, and if thay do, through what ordeal they should make them tase $A$ fow days ago, I received, from the father of one of the Graduates of the 之iormal School, a letter of enquiry on
lie sulject, and perhaps lie siontest and simpleat way of bringing the whole matter inefore the putlic, is to publish that letter milli my ropiy:-m

## " Mev, anil Dear Sha, -

I hare just receivel the first ino. of tho Sournal of Efrucntion. I think it is calculated to do much grod in the 1'rovince.
I have much plensuro in informing yous that much improvel its hevalth since alia mmo home. . . . 1 should feel obliged if you wouli inform wo whether or not It is ueceneary that sho ahould anbmit to an examination beGore tho lanerl of Schosel Commingioners (linving n Arse cises Diphoma from tho Provincint ciumal seminary) to eutitlo bue to l'roviacial nid. 1 hava leen informend hins tho loanal in - exnmine candidates linving a frat class Diploma, and that, in soms instances, thry are nilowed seconit alass echoole. 1 caunot vouch for tho truth of tho report. Ona Who hail npplied for a selionl in that diatrict told mo that anch whes tho cnace, and allegeal it ns a reason for not attending tho Xiormal Seminary.
If llmanle of School Commiseioners havo powor to ignory or comitemn the Diploma of tho Normal Semimary, it nppeare to me slat tho Normal Schoxil is tratest trilh contempt. I may le in ertor, but I think lime your Diphoma shonha bo n anlificient titlo so miy one holding fo from you for a achool in the elase to which it belongs. I rould nay firther, if tha atledents of tho Normal School ner obliged to competo with partiea who engngo to leneh only to suit monto emargency, I fear very unech shat its uscfulness will not be npprecinted.

Xour opinion on this suliject will be mote neceptable.
I have the honor to be, Sir,
Your obedient scrunat,
nriris.
"Tuuno, 2nd August, 1858.
"My Deaz Sar,
I leg to neknowtedge the receipt of your commanication of the z2nd wh.

In reply, I luve to state that tho late on the proint to which jou refer is perfectly explicit. The ewelnh chanse of sin ivorinal School lsill ruis in these larma: "Any peran bolding a certificate from the I'rineipal of the Normal School ahall be entitled to a lecuse from any lloand of Commisaioners, unlens the holler of such certifitate be of bad mome character, in which case, ns soon ist the fact of any Gmanto having contracted immoral lanbits is made known to tha Principat, he ahall crase the name of such person from the list of Graduate!" Surely, it lungunge has my meming, the nbove clause plainly intimates that the power of sitting in judgment ora the pmosesional capabilities of teaclers who hold a Diplomn from fhe Normal School, by lloarls of School Commisioners, lats beew supersaded, and that their power extends only to the momal claracter of the nyplicants for a echool within their bommls. Every one who undertands any thing of the nature and design of Niormal Schools, in nny nnioual rystem of ciluention, cannot fail to perceive the propricty of this arrangement.

Agnin, in the 9 th chuse of the Bye-Taws of the Commissioners of the Normal School no rend, "And that any holiing the certilleate of Class 13. (chat is, first class) shall be en: lisled to the privileges of a first class Common School Teacher." This clauso ought, I think, to set the matter at rest, in so fite as tho legitimato interpretation of the Normet School Bill on the point, is concemed;-and to show, that every tenchor passeasing a Diplomn from the Normal School, be it of first or second class, is entilled to a corresponding licenso from any loard within whose bounds he happens to bo labouring, provided there is no moral delinquency in the case.
Furthernore, I um decidedly of opinion-an opinion to which I havo mom than onco given expression in my Educational Reports-that if the Normal Sclicol really serves tho end for which it was intended, every one of its graduates is entilled
wher
to a higher position and to a langer remuncration from the Province, han thoso who betake themestres to tenching merely, as you well stylo it, "to soit eome emergency." As jet, liowuver, thero is no legnl provision for zuch prirposen, and perlops it is just ns well and as entialnctory dint tho Normal Seliool graluntes tre allowed to work out for themedres such $n$ claim; $n$ nid lifis I liave litle dombthery will do, if tho Province gire the Institution anylling like ondinary jusice.

1 am, my llear sir,
linillifilly yours,
Alemandeng Fonnester."

## TLAVELIING EXPBNSES OF NOLBMAT, STU. DENTS.

On his mulject, too, there scems to exist amongat some 13onals of School Commisalonere consilerable varicty of opinion an to their modo of procedure, $\boldsymbol{A}$ few weeks ngo 1 hat a letter from one of tho students who nttendel the Niormal School last winter, which amongst other lhings contained the following sentences, "Tho Commlasioners eerved us this time the anmo ns last winter. Thoy tlil not grant a copper for trevelling fees at their inat meeting," sec., \&e. To this communication I sent tho following replyquenring on this suliject ; and as there may be other atudents and Doands in the ennece ciro cumafnnces, it is hero inserted :-
" Dear Sm, 一
I am sorty to leam from your communimation that jou and other stuletits who nttended the Normal School Inst winter, from such a distant part of the country, recoived no assistanco from tho lionrel in the way of trnveiling expenses, and do carnestly hope thas this aroso not, na you allege, from any opposition, on the part of the Banni, to the Nomail School, but fron a previous distribution of thuir nvailablo funde. In the 8 th clauso of the Normal School Bill it is thas binted, "Each Baarl of Commiasioners shall have the right of send. ing to tho Normal School, at the commencement of any of its lerms, one pupil, cifler malo or female, for overy ono hundred pounds received by tha lbonrd from tho Prorincinl'Erensury, nad, if uccessury, they shatl nid nuch pupils from tho Prooincial Gmat at their diapoanl, in paying their travelling expenses to and from the Normal school at the rate of 3 d . per mile," \&ic.
1 hold, then, that, in necordande with this enactment, every Board of School Commissioncrs is bound to pay to overy student duly recommended to then Normal School, nt the rate of 3d. per inilo for jmuelling expenees to and from the Normal School, and that, at the time when the reconmendntion is granted. True, there is the condition appended if necesenry;' Lut this, I apprehend, has respeet not so much to the circumstances of the applicant, as to the pince of his residence, being contigunus to, or at a diatancas from, the seat of the Normal Sclool. An individual living withina few miles of the institution, and who can easily obtain a prisate conreynace, may not require such issistance; but it is otherwise when the pupils, is in your cose, require to travel the distance of more than 120 milcs. I regret the circumstances to which you allude all the more, accing that this is the only eneouragement giren to tho young mea nnd women of the Province to attend the Normul School, with the view of qualifying themselves for the office of the ceducators of the young: There is searcely a Normal School, cither on this or the otiner side of the Athantic, placed in the same disadvantageoas circumstances, in so far as pecuainry assistance to the students in attendance is coacemed, as the one at Truro. In some Normnl Schools, not only are the truvelling expenses of the students defrayed, but a considerable amount of their maintenance, when in attendance. In others, the pupils are entireIy supported. And, in others, a superior position and larger emoluments are assigned to their Grudnntes when they g9 forth in the capacity of Tenchers. All that is granted to the

Nonnal P'upils in this Province, is 31. per mile for Imrelling, and it is hard, when even this is refased, or hemitalem nlouth, is any loand. I nin happy, howevet, to any, that this has only occurrel, as fir as my knowlenlgo goest, in the casd of tro or thred lbennls. "Generally, they net in the mose libemi manner towards tho young hien or women whe intimate llicir dosire to attend the Normal Sthool.

I nin gours, "failifilly,
Atix. Fonbentrin"

## CLOSE: OF TLHESENT TEMM.

The present Session of tho Normal Scliool will terminate on Thuredny, the 28 nl of Scpmember. Tho privnte exnminn. tion for Diplomas will tako place on tho 1 Gili, 17 hin and 18 lh , and the public roviow of tha wholo Institution on tha 22nd and 23nl. Tenchers, pirrenta noil others interested in tho enuso of education aro requectully invited to ntlend on tho occavion.

I'rustes of Schools nul athers, who desira Niormal Trmined Tenchere, nre agnin informcil that thry will reguire to apply to the l'rincipal of the Niurmal School willimalillo telay ma possible.

## MODEL SCI!OOLS.

Theso Schools will be re opened, after the nummer holidaya, on Monday, tho 1 Gill Auguat. All nilmitted nt nny timo butween the quarterly days are required to pay tho whole quarter's fee.

Tho public reviow of theso Schools took pince on Thursday, tho 15ili July, when tho pupils were examined on tho work in which they huid been engaged luring tho preceding quarter. Thero was $n$ large attendance of visitors, finclading paronta, ciergymon and uthers. The interest taken in theso Schools secens unabated. Thoy havo now lieen in operntion nbout a year. and tho progress mado by thoso pupila who liave been in regular altendanes daring tlate time has fully realized the anticjpations of the supporters of tha syatem.We believe, however, that its full effects will not be nppre rent till thoso who have commenced in tho Drimary Depnetment have renched tho Iligh School and buen there a year. Then, wa believe, that those pupils who hinva gono through sll theso stages will compare fivournhly, in acholarahip and in general character, with those of any similar Institution ill this or other lanls.

It may again be intimnted to parents and ollors living at a distance, who wish to send their chiditen to theac Sehools, that there are excellent boarding-housts in Truro and neighbourhood. Some of the teachers are prepmed to recelve a few boarderd at a very moderate rate. Applications to bo forwarded to J. B. Calkin, Eisq., Head Mhster of the Dfodel Scloools.

## GENERAL NOTICES.

Ilev. At.ex. Forarstell, D.D., Superintendent of Eilucation :
Dear Sir,-
I beg to inform you that I tnught in Sichool District - for the period of ten months, which is partly within the Board of $\qquad$ , and partly. within the Board of
At the end of four months, ss then agreed on, I sent in my returns to both Boards. The lloard of -, in which the school is erected, paid me their proportion at the rate of £ij5 jer annum. The Board of refused making
any nllomance, Alating that the llaxal in which the Sehool if filaced ha houthl to piay for iroth sider. I trarelled about 33 miles 10 meet the lloand of ,_, and all lint 1 receir. ed from lirm was only a few School ionks. Thery aseured me that they would comnict the - isonad to pay me tho whinio sum.

I continucil tenching in the eamo echool, nod, afier six menths more, I agnin rencred my appliention with nnother return, and still shey refused gransing mo nity provincial allumninec.
'This is my position, and I now humbly solicit from sou, as Suparindendent of liducation, to give ma adica in lhis maller.

## I remain your obedient ecrrant,

Wha haro had acreral letlore on tho same auliject, and hinro thercfora decmed it expedient to gira inacrition to the abovo. In natwer to the inquiry thercin mate, wo havo to elate thas thore is 110 proviaion mado for such cases in tho present educational enactment, but thent the Iexislature, during the ecezion of 18:37, pakzed a late, of thich tho folloving in a coply, nnd which will, wo trust, bo anllncient to guldo both Teachers and Donrds of Sichool Commissioners In such carcs:-

## AN ACT TO COvTINTE: AND AMEND THE: L.AWS Milastinc To rintextion. <br> (1) acoril the lat day or May. a p iesi.)

Bo it enacted by tho Gorentor, Council, and Aesembly, as followe:

1. Clapier co of tho rovioed hatuter, "Or public inetruction," ans amended by the acts hereinafier mentionied and by this acto ail.
 latung to tho l'itou ecadstuy, nloo, clingter twonty.fivo of tho nuts of 18j4. and chapter thirty threo of tho acta of 185s, respectircly entitici, "An nit lo continuo mill atrend tho laps relating to education." am hooving trapectivsly cominucd untiltho first daj of Slay, in the yrar ono itousand ciglt huodredl and giry-right
2. Tha allowance for roommon shools alisill be incressed to the zoin of fourteci, thoumand cighit hutidred anil ninets, pounilo. and aliall bo divaled amange tho annous countica and durificta in tho proportion of uno third in aldhision to tho anowunte which they now receive under ilapter sixity of tho rovized atalutes and the acts in amendment thercof.
3. Whoro tho Lounds of any erheol diatrict noo intoriceted by the lines of educational districis into whicha any county may bo di. tho lines, suth echicol dustrict shall wo ansusted proportionaliy by tho toand of con mamenoners for cach mucationai dutinct by tho lines of whech tho beunds of such echool diarict aro mo piatersected.
4. Tho num of ono handred poumble gransed for tho support of three gramuar choouls in the county of Capo Brelon, may hero. aner bo appliced to the support of iwo grammar achools only in that county.
'To ennble the teachera, in their aemi-annual returns, to give a corrcet and roliable repurt of tho educntional a:nusties within their respective districts, they ought to keep an necurate register of the dnily ntiendanco and of ill that transpires in echeol. It is to be hoped that the returns from the Common and Graminar Schooli, ns well as from tho Acnilemies, will be far more complete this jear than heretofore.
Tho Superimendent of Education will hold 'Tenchera' Institutes, mect tho Dourds of School Conmenissioners and address public meetingn, as follows:-

Now Glasgor-Siepteraber 10th.
1'ietou-September 11th.
Antigonishe-Scptenber 27th.
1'nrt IIood, C. 13.-September 29th.
Miorgaree, C. 13.-Oclober 1st.
Maddeck, C. B.-October 4th.
Sydnoy, C. 13.-October 8th.
Arichal, C. 13.-October 13th.
Guyaborough-October 16 th .
St. Alary'-October 19th.
Middlu Alusquadoboit-October 21 st.

Thé Teachers' Institutes will mrat on the dage fixed nt 10 oiclock A. m. itho thonnts of Schoul Commiztioners at 3 oclock $r M$, and tho public mectinge nt $70^{\circ}$ ciock $r, \mu$.
Dr. Vorrester requetis that tho Clerks of lise diferent Boands will ba so kinec as gire inlimation of tho aboeo appointments to tho parlies concornci.

1r. F. will also nuldress public mectings on tho sulyect of Filluention, at che following intermelinto placer, Merigomish, Lilllo llirer, and, in Capo Breton, Dlaister Coro, Minbou, Ilogntanl, lanke Ainalic, Iroad Core, Alidlla liver, St. Annik, Norlh Shore, Boularderic, Lilllo Dras d'Or, Sylney Alines, liar, Nife, Weat ling, Iue intimation of the time and place of lisese tacetings will be forwnrded.

## IV.-EDUCATIONAL INTELLIOENCE. COLONLAT.

## 

During tho pnst momith, the only suliject morthy of notice. connected with celucntion, is tho puhtic exnmination of schools, and especinlly of iliosa of tho metropolis. This is the acneon of tho year when the mujority of scho its linvo liecir atmmer holidaya, nod theso holidnas are generally precesled by publia examinations. What has particitarly struck us in referenco so theso examinntions lins beeln tho promanen ponition assigncil them fin sho publie prints, and tho eulogistic terma in which ther have been deacribed. Of such a clanracter linvo been the notices ziren of the Niational Schonl, under Mr. Willis, of tho Acalemy, Wolfville, umber Mr. Inart, of tho Freo Cliurch Aendemy, uniler Mir. George. of Ho Dilhousto College, Higis School, under Mir. Redd, of the Mlodel Schoola, Truro, under Mr, Calkin, of tho Aenilinn School, under Mir. Garvic, of tho Dartmouth Academy, under Mr. Miller, of tho Diciou Aendemy, under Mltr. Cosiley. and of tho Fumalo Schonla, umder JUse l'earaon and dias Topper, IInlifax. And we duubr nat that other examinnthons have bean equally angnalized lil local nuld oliare papers which have nos mes our eye. Ail this is exceedingly clicur. ing, nud ia surely indicatiro of an increnaing intercest taken in tho causo of propular celuention. We fondly trust tiant theso exnminntions will continuo to riso in the pulalic extimation, and that every cilort will be innslo to render them in reality what they are intended to be, tests of the indiatry nnd akill of she encher, and of tha proficiency of the pupils. In order to this, it is necesanry that the teachers make these oxuminntions fair representations of the nellan condition of hils school, and not showy exhibitions or celebrations: and that the pupe is bo mado to feel that the resulte of their excrion through tho icrm, and net a few speciml eforts near its cloec, will bo brought into review.

## NKw Hutsiswiok.

We observe finm the Gazelle of this Prosinco that the Superintendent of 1iducation is butily engaged viaiting different countiea, holding public meetinge, and adiressing them on the aubject of popular cducation. This is beginning in the right quarter. Wo havo long been impreased with the conviction that the formation of a correct public opinion conatitutes the rallying point of all improsement nud prugress in the causo of cducation. And how is this to bo brought nbout? It is not by legislative ennctnents on the subject of ellucation; it ia not by the appropriation of a large amount of tho resenuo of the country forits furtherance. It is by direct, and enlightened, and carneat, and stirring appeals to the conscience and heart of the peoplo themselves. It is by inspiring the pinds of parents with a ecuse of their rasponsibility and privilego in reference to-their offspring. It is by showing the men of wealth and influence in any
community liat hlere is no way in which they slastl obtain. such a per centage for the monery they expend, is in tho fustherance of the celuration of the joung, the patriot, that in this walk ha will fand tho highest gralificntion for his benesolent apirit: nud the Chrietian the noblest, tho most ane imating rewaril for nil his zelfodenying-selfencrificing acts. We carncsily hope, then, that much gard will bo eflected ly these excrtions of our fellow-laborer, and slinll be glad so hent, of his morements.

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 vastuvetion is uithr caxaja.Annunl parlinmentary granta were made in nid of common echools for mote than thirty yeare, but expended withorit eysiem, and rith but litle adrantingo to tho country, In istl, lio fres law was paesed, enbodying tho great principlo of granting money to each counis, upon condition of auch countr raining an equal nmount by local nssessment. Tho mnelifnery of tho lnw requiring modification, tho Hon. $F^{\prime}$. Hhasks brought in another bill in 1843, wheh becnmon lawe, and which very much slmplified and inproved tho iternila of tho Aet of 18:1. 13y thatinw, ilio Secretary of tho provinco was exomicio Chief Superintendept of achools, willi an ase sittunt. In 184t, tha ollico of neststant Sitperinienient was offered to lhe presen incumbent ; and ancer having recoived tho satiction of the nuthorities of his church, he necepted is in the nutumis of that yenr, ufen the undoretanding thise the numiniatration of tho school ryotem should constituto a dis. tinet son political departmethl, and that he ahould be permitted to provide fur lho peifurmancu of his dutics for n yecar by a lejuity, nad have a yenr's leart of abeenco to viait and exumine the eluentional systems of olher countries, both in Europo nal America, before allempting to lay tho founditi. ons of $n$ eystem in Upper Cntandn. Tho wholo of 1810 wns ennposed in theso preliminnry enquirice, and the resula werce enbodied, in Atarcli 1846, in a " lleport on a Systern of public Elementay Inatruction for Uppor Canadn," nal n dran of a bill which was introduced into the Lecpislativo $A_{s}$. sembly by the IIon. W. II. Draper (then Altornoy Guaneral), und becono a laviv dunc 1846 . In $n$ fow monthe nfo terwarda, $n$ draft of bill was prepared for catablishing asjas. tem of eclools in cities nind incorporntell lowne, which was fintronluced into tho Leginhativo Axsembly ly tho Ilon. J. H. Canmeron (then Solicitor Genernl), and berame n lat in June 1817. These iwo nets, will the modifications and im. provements which experience has suggested and tho progress of tho aystem required, haso been incorporated finto ane Act. which wns introduced into the Legislative Arsembly by the hon F., Ilincks (Inapector Genernl), and became $n$ law in 1850-the first Act to which his Excellency tho Eirl of Eigin gava the roynl nssunt after the removal of the seat of Goveriment to Upper Cannda.

The municipal courcil of each tonwship divides such torn. aling into school sections of a suitable extent for ono school in ench, or for both: a mala nnd a female sthool. Thonifnira of ench achicol asection are managed by threo trustees, who huld their ollieers for three years, nind one of whom is clected annually by sho frec-holiders and housc-holders of such section. The powers of trusteca aro amplo to enable them 10 do all that the interesta of a good school requirc-they aro tis legal representatives and guardians of their section indechool mattern. They determino whatover sum or sums are necessary for tho furnishing, \&e, of their achool and tho enlaries of tenchers, (in addition to tho Provincial grant and County asscssments, and report fully to tho locnl superintendent by filling up blank forms of annual reports which are finished to them by tho Chicf Superintendent of Schools from year to year. The towaship council imposes assessmonts for the ercetion of school houses, or for any other achool purposo desired by tho inhabitanis of achool sections througla their trustees. The inhabitants of cachachool section ducide as to tho mariner in which they will support their school according to the estimates and engagements mado by

Hhe trustecs, wiether hy voluntary zubacriphion, by mio bills un parents aeniling chilitren to ilio scliouls. of by rates on tho property of all accurting to its asecesed ralue, and opening tho school to tho children of fall without exception. Iho latere moda is likely to supersedo both tho athers; but its ex. istence and opreration, in connection with each echool, do. pend upon the annual deciaion of tho inhatitauts of enci sclinol section at a public inecting called for chas purpose.

Tho dalies of teachers nro preacribed by law, and thair rights aro effectunlly protected. Noo tencher in catitled 10 any part of tive echool fund who doce not cunduct his zchool nccoriling to lav, and who has not a legal sertificale of gualificationa froin n county llonal of lubilio Inatruction; nor Is any selhoul section entilled to receivo any aid from tho schuol fund in which a schanl is not kept open six months during each yene loy a toacher thua recognised ne to both moral charnetar mid nininingila. Tho lave nleo requirea a priblic quarterly exnamination to be held in encla achool.

This ineprection of tho echoola is inndo by localsuporintendente, who aro nppointed nithually dy lio cenaty councils, and who tmay banppointed ano for ench county, or ona for onu or mora lownshipa, at the pleastira of encli county council. Ebuch: onlsuporintemdent is ontitied to at least ono pound (four dollare) per numum for ench achool under his clarge. Ila it onen allowed more. Ilo is sequiral to tiait ench ectiool at leant anco n quarter, and to duliter a public lecture un cifueation in ench schaol secilon once $n$ year, basides appartioning the achuol-monuys to tha noveral sections withins his jurisilicion, giving rliecke, on the leders of 'I'rustees, to qualified tenchiers unon thas compry trensurer ur sub. treasurer, niling in tho exnminntion of teachera, deciding rarions questions of dippute nail reference, correapoonding on seliool matiers, and reporting monumily to Clifer Buperintendene necording to the lorma prepured noml lurnialiad by hime.

Besides the local auperintedulenta, all clurgymen recognas-
 burs of tho county councila, and indermen, nro achool viaitore, to risis all the selioota, hs far as practicable, within thoir reppectivo clarges nod sunicipalities.

There is a llomid of E'ublic Instruction in each county, consisting of local auperiatendenta nat the truatees of gram. mareschools in auch county. Theso county buarda consiat lutgely of the cetergy of difierent religioun peraunions, associnted with somo of the most intelligent lay guntemen in ench county, so that the county fins tho beat guirantrustint its circunstances will nilmil for lio moral churucter and in. tellectual qualifientiona of tenchers. The 'l'enchers aro ex. amined and armar.ged into threa classes, necording to tho Programmo of examination prepared and pesescribed by the Council of Instruction for Lpurer Cunada.
Tho Dlunicipal Couscil of such county is responsible for raiting at least an equal sum for asalarics of tenchers in tho sovarnl lownahips within itn jurisdiction with that which is nnnunlly apportioned to lis yout of the parliumentary appproprintion by the Chief Supurintendent of Schools.* The counly councils alno appoint the local Irensurers of tho school fund, and the local xuperintundents of schoole, and provide for their anlariea. Specinl provinion is alamomado for tha asecurity of the school fund, ngainas the diveraion of ang part of it, and for the prompt pnyment of it to teachers nt tho timo spuciftral by law. lools the county and townalif coullcils have nuthority to mise sny sume thuy eliall thank proper for public school libraries under gencral regulations prescribed necording to law. A parlinunentury nppropriation has been made for the estublishment of school librarics, to be expunded on the sume conditions with sho appropriation for the support of schools.

The law also provides a system adapted to thio circum. stances of cities, towns, and incorporaled villages. In cach city and town thera is ono board of trustees for the nanageenent of all schools in such city or town-two trusteca clectcd for each ward, and holding office for two jears-one re. tiring annually. In each incorgorated villsgo not divided

[^0]ithto wards, there is n bonmi of six trustecs electen-two roliring from ofliee and two elected, ench year.

At tho liond of the whole aystem we linvo a Conneil of Publie Inatruction and n Chief Superintembent of Schools, both appointud by the Crown. 'Ma Councli lins tho entire manngement of tho l'rovincinl Normal nul Model Schools, rerommends the text books far the schools nind bouka for the arehool libraries, nnd makes the regrulations for the organizalion. government and diseiphina of eommon schoole, the exnmination and chaseificution of teachers, and tho establish. ment nul care of srhoul librarinathroughout L'pper Canada.

The Chief Superinement, who is ex-officio member of the Courcil of l'ulitic lastruction, and provides accommodntions for ins meetiugs : npporsions thon achool fund to the several municipnities thronghnut Upper Camada, prepares tho general seliool regulations and submits them, as well as that of text and library books to the consideration of the Council; preparen lice furms of reporis nud modee of all school proceedings under the nel, finl gives instructions for conducting them, ns wall asfor holifing tenchers' institutes; docidlen questions of daputes submitted to him: takes the genernl buperintendence of tho Normal Sichool; provides facilities for procuring text nad library books, nad provides and recommends plans of echool houses; prepares annund reporta; correepronde with local school anthoritios throughout L'prer Cammb, and employs all means in his power for the fromotion of celucation and the ditlision of uselial knowledge. Ife is responsible for his ohteinl conduct and for all monegs that pass through his Department.

## bIUUOATION IN GREAT BIRITAIN AND IRHLAND.

We aro entirely indebted for tho undormentioned fuets to a Pamphlet recently publishad, entitled, "A Report of an Jxamination into the Working Hesults and Tendencies of tho chie 1 puhbas Eiducational Jixperiments in Great Britain and Iroland; by the llev. William lirazer, Jussley." 'Ihis highly talented and deeply interesting l'amphlet wo shall notice more formally in our next. In the mean time, we gather from it tho more important facts bearing on the present statu of Elucntion in theo countrics-as tho most recently furnished and perfectly relinble.

## IMELAND.

In this portion of tho 13 ritish dominions there aro two parties pushing forward the cducation of the people-liso National buard nud tho Church Education Society.

Nationaf. 13oand.-So far bink as 1812, ino Commissioners of Elueation recommended the adoption of a system "fiom which should be banished even the fuspicion of proselytism, and which, admitting children of all religious persuasions, should not interfire with tho religious tenets of any. Tho Rildare Haco Society was commrissioned to distribute the National Grants and to work out tnis theory. In 1831, when the Grants wore withurawn and thos National l3onad organized by I'arliament, there wero 1021. sehcols, rith 137,080 scholars- 89,000 of whom, or moro than one-hali, were lloman Catholic children. In I8:8, a Commitice of the IIouse of Commons, to which wero referred the various lieports of tho Commissioners of Education. recommendol a systemi to bo adoptod which should afford. if possible, a combined literary and a separato religious cducation, and should be capable of being so far adapted to the raligious persuasions which prevail iu Ireland, as to render it, in truth a National systen for the poorer classes of the community. This theory is now being prought out by a vast clucational machiuery. lu the centre, is tho Naticmal Normal School, triining between 800 and 100 Teachers, annually. Around it, in tho country, aro 12 District Model Snlools, to exhibit the best methods and difuso educational spirit ; and 5124 National Schools, laving on their roll upwards of 500000 , with a daily attendanco of 335,000 . Associated with tho Nommal School, and in its neighbourhood, is tho Agricultural College, with its lectures and experiments, open to all the Natioual Teachers; and, with ats Nibert larm, to exhibit all that is zaliable in

Agricultural improvements. Conneeled with this experiment arc 30 Mlodel Farms and 158 Agriculsural Schools. To keep all in wooking order thero aro 50 District Inspectors; 0 Sub. inspectors; 3 Inspectors of Agricultural Schools; 18 Organiz. ing Masters; und 0 Organizug Sclioolinasters.

Cifuch linucation Surimtr,-"Tho objects of this Society aro to assist Schools at present existing in tho country, and to cstablishenew Schools on an improved system for tho purpose of afforling to the chitdren of tho Church, instruction in the 11oly Scriptures, and in the Gatechism and Jormularies of the Chureh under the direction of tho l3ishops and Y'arochinl Clergy, amd under tho tuition of Tenchers who aro members of tho United Church of England and Itoland." Tho Sooiety liolds the prinoiple of State Lalucation, admits the right of Govornneut inspection, and is willing to submit to it; but refuses all (lovernment advantages, unless permitted tho unrestricted use of tho Biblo in Schoole. This Socicty has a Normal Institution, in which 100 Students, male and female, are anoually trained. It has 1760 Schnols, instructs between 80,000 and 90,000, -upwards of 15.750 of whom aro Roman Qatholies, -and raises about $£ 40,000$ a-ycar.

## LiNGLAND.

Fingland is attempting a National Elucation through deno. minntional action. Thero aro certain principles aul regulations on which the distribution of assistnnce from Parliament depends, and to which all denominations alike must conform. While in Ireland the national systen repudiates denominationalism, and ignores religious teaching in tho public work of the School-in Jingland, the Privy Council Gant sgstem depends on denomi. nationalism, insists on religious teaching as purt of publio school mork, and refuses assistance in any form to secular Schools. The Committce of Council on Fducation demand proportional liberality to mect thoir outlay in assisting to butild Schoolhouses, to pay Teachers' sularics, and to eupply Jooks, Maps, and Apparatus. They also demand for their woney a certuin ainount of awakened and well-directed intelligence. Ithe different ugencies at work are: 1. The British nud Foreign Socicty; 2. The Church of Eughad; 3. Tho Weslevaus; 4. The Roman Catholies.

Wo intend, in subsequent numbers, to detail the efforts of theso agencies respectively. In the mean time, tho following tables will show tho result of their combined exertions since 1839-that is, during the last 20 years:-Schools built, 2,587; enlarged or improved, 982 ; Teachers' eesidences built, 1,377; Scholars for whom additional accommodution havo been provided, 459,754 . In the same period the Claurch of Fugland has raised for Normal Colleges, El48,847 13s. 21d., and obtained from Privy Council for the same objeet, $£ 69,002$ 10s. 3d.; for ordinary Schools, $£ 1,285,54183$ 112d.; und from l'ricy Council for the same object, 8476,880 12s. 5 du. Tho British and Forcign School Socicty raised for Normal Colleges. $£ 16,488$ 78. 94 . ; nnd from Privy Council for the samo ohject, £J,000; for ordinary Schoois, £S7,80.4 6s. 5 dd. ; and from Privy Council for the same, 243,702 12s. 5id. The Wesleyans raised for Normal School purposes, $£ 39,30$ i 9 s. 9 id: ; and from Privy Conncil for the same object, $x 5,04910 \mathrm{~s}$; I Ior ordinary Schools, $520,80598.11$ du. ; from Privy Council for the samo object, £10.758 9 s .8 d . IHomo and Colonial, for Normal Colleges, $£ 1,600$; from Privy Council for same, E 6,000 ; for ordinary Schools. included in tho Chyrch of Fingland Schools Koman Catholice, for Normal Colleges, $£ 9,630$; from Privy Council Grants, $£ 8,900$; for ${ }^{\circ} \mathrm{or}$ dinary Schools, $£ 13,07411 \mathrm{~s}$. 9 d .; from Privy Council, for same, $£ 5,04119 \mathrm{~s} .2 \mathrm{~d}$.

In addition to tho above efforls by deluminations and Govormment, there is another section of tho Christinn Church, a certain portion of the Congregationalists, acting on the jurely voluntary principle. The leading principles of the Board are thus stated, "That the Board is expressly constituted to promoto popular education partaking of a religious character, and under no circunstances receiving aid from publio moncy administered by Gorermment." In 1843 they slarted operations by a magnificent nuney contribution of $£ 120,000$. The

Training Institution at Homerton cost $\mathcal{L 1 2 , 0 0 0 ; \text { and the yearly }}$ outlay of the Board for training students is about $£ 1,000$.The number of students trained last year and nppointed to situations was $\$ 0$. This experiment, intended to exemplify the adequacy of the voluntary system, is only exemplifying its inadeguacy, the general income of tho lonard being onily $\mathfrak{L 3}, 000$.

In addition to the sums granted by Government to the different denominations complying with tho coultions of tho Privy Council, there aro also hargo sums granted annailly for Capitation Grants, Imdustrial Schools, de., to which we may afterwards refer.

Though the means of education are thus liberally diatributed in Jingland, yet, after tirenty years toil, we fiud 2,262,019, of school nge, not at school.

## SCOTLAND.

The ?ucational views of Knox in this country at once be: came national. In the first l3ook of Discipline it is stipulated "that every sevaral Kirk shall havo a schoolmaster," such a one as is ablo at lenst " to teach Grammar and tho Jatin tonguo;" and that in overy notable torn Colleges bo established for tho diffusion of higher edscation in Language, Logic and Rhetoric. Theso proposals were practically secured by the Act of J'rivy Council in 1016, and more Jully and formally by legislative emactments in 1683. The conception too of the education thich should be given, and of the position and power of the public Teaclecr, was much highor than that common in England.
But there was no provision mado in tho Parochial School ssstem for the increase of tho population, which in time fire ex. cecded the means of supply. This drew forth the efforts of diiferent religious bodies and of associntions of individunls, which cfforts bave been largoly nided by Parliamentary Grants, there being not loss than 926 schools recoiving aid from larliament.
From the census of 1851 (and therehas been no greant chango since) it appears that the day-schools are 5,420 , of which 3 ,349 are public and 1,803 privato. Of the pablic schools 1,039 aro supported by general or local taxation, 401 by endownent, 1.385 by religious bodics, and 434 miscellnneous. The total number of scholars in day schools was 368,517 . This gives a proportion to the population of Scotland of 12.76 per cent., or one scholar to cvery 7.54 inhabitants. Making a fair allowanee for deficient numberp, it seems probable that 14 per cent., or 1 in 7 of the people of Scotland, aro at school.

In 1S50-7 the arerage salaries of male 'reachers, including all emoluments from Government Grants and all professional sources of income, were of certificated (hat is, Teachers holding Qucen's certificate) in Established Church Schools $£ 98$ 11s., of uncertificated $£ 7513 \mathrm{~s}$. ; in Free Church Schools, certificated $£ 92133$, and of uncertifiented $£ 69$. In Iipiscopalian Schoole, certificated $£ 7418 s_{\text {., }}$ uneertificated $\mathcal{L 4} 4$ lis. In Moman Ca. tholic Schools, certificated $\mathfrak{L J} 614 \mathrm{~s}$, uncertificated $\mathfrak{L} 538 \mathrm{~s}$.

So much for the quter combinations of popular education in Brituin; it uny now be asked, What are the inner processes that are giving form and power to the teaching of the Common Schools? These may be regarded as threefold. 1st. Tho Mechanical and.Verbal. 2nd. The Social, Intellectual and Emotional. 3rd.. The Physical, Intellectual and Moral, or the trofold training power of tho covered and uncovered School.
I. The Mechanical and Verbal. This system, originated by Bell and Lancaster, was fostored and represented in England by the National Society and l3ritish and Foreign School Society, in their Central Training Schools, adopled with slight modificotions in the National Normal Schools, Dublin, and long wrought out in the Sessional Schools of Scolland. This system introduced monitorial agenoies, which broko up the olden apathy and listlessness and gave impulse and rapidity of movement to the clasees.
II. The Social, Intellectual and Emotional. This system,
originated by Pestalomi, has been exemplified, in llitain, chiefly in tho Central Institution of the IIomo and Colonial Socsety, Jondon, adepted partially in tho Training School of the Church Elucation Socicty in Dublin, and appears gencrally in the Infant Schools of lsritain. While the system of Boll and Lan. easter dealt only with the outer and purface elements of lifo, lestoltozzi's hays hold of the sympathics of the young heart in its dreaming connections with nature, and encouruges children to look to objects, observantly, that, through their mutual sythpathics and communings nith nature, thoy might incrense their ors happiness. Somo of his principles are soumb, others without foundation in mature, and consequently false in philosophy and hurfful or usoless in npplication. All our knowledgo. ho sajs, arises out of number, form and words. On this trilling basis cafleation must proceed.
III. Tho Plyssical, Intollectual nnd Moral. This system, originated by Stow, has been long fosterel by the Glaggow liducation Socicty, and now exemplified in Clasgow Training Collego (liree Church), in Chellenham College (Chureh of Fingland). Westminster Training College (Weslegan), nal Iomerton Collego (Congregationnlist), and appears in modified forms in many of the leading Institutions of the country This is the only system which has survived in all its parts tho test of manifold experiments. It was gradually evolved amid the changes and demands of life, and is founded on experience. It is in truth a creation of necessity:
The Normal Colleges of Brittin now number 31.
We intend to pursuo the salne course with the Continents of Europe and America.

## I'-REVIEWS OF SCHOOL BOOKS.

Tut: Splatana Hook Supemstinan; or a new and easy methool of teaching the Spelling, Meaning, I'romunciation and etymology of all the difficult words in the Euglish Sangunge; with exercises on Verbal Distinctions. Malifax, N. S.: A. \& W. Mackinloy.
Nothing ismore necessary to the scholar than to be a good speller. Whatever be his general attainments, a document from his hund, containing misipelled words, will secure for him among strangens, a repabation for being illiterate. And yet how many are there who are sometimes at a loss how to spell a simple woyd: or mathr how many who are often puzgled with the most common ones! It is a well known fret, that many men who have studied spelling from their boyhood, cannot wije a letter fie, from imacenracies in this particular; and that in most of our schools, the pupils are made acquainted with the Orthograpliy of only a small number of the words in tho language.
But what is the cause of this very general failure? Does it arise of necessity from the intricate structure of the languare ; or is the method usually alopted in teaching this branch of cducation not calculated to secure the end in view? That our langunge does abound in insegularities, which present the student with many difficultic:, is true indeeed; but if any way can be pointed out, by which these dillieulties conld be obviated, and greater efficiency insured. it becomes a matter well worthy of the attention of the teacher.

The study of long columus of words, such as are usunlly found in our spelting books. is very dry and uninteresting. But even when he has laboured through his spelling book, the student has mastewed only a few of the words in general use, for it would be impossible thus to learn all the words in the columns of a dictiomary.

If the use of the common spelling hook fails to make good spelless, where shall we find a remedy? To what slanll we have recourse but the reading book, where wo find all the words, and in the very combimations in which they must be used in writing? A pupil who can spell all the words as they oceur in sentences dictated from lis reading lesson, can spell the same words whon he comes to use them himself in the same manner. Spelling in connection with the reading lesson then, will sceure greater efliciency with less labor than
naly other way. llat not only should this be done orally, but the sentenes dictated shoild ofen be written by the pupils; for it is in writing ouly they are called upon to tess their abititics; and here they are most linble to mistukes.
lel to facilitate the study, and make the pupil thoroughly acquainted with orthograply, a book is needed. Not a book whore oljeet is merely to present a certain number of worla promiscumaly arranged, which may be lenrned br rote ; but one calculated to renove every dificulty, and make the pupil master of the Orthograplyy of all the words in the language. Such is the nim of the "Spelling Book Superseded," and it is at least an ndvance in the right direction.

As its mame implice, it is not simply a epelling book, but it is intemed to supersede the une of hie spelling book. It presupposes that apelling is tanght from tho reating book, mand furnishes menns for readily investigating thase nice distinctions where the later fuils.

Almost all those worls that aro sometimes confounded, on nceount of being pronounced or spelled alike, are arranged side by side, ao ns to enable the student at once to sae and mark the distinction. And the smme words are afterwards ingeniously arranged in sentences for dietation.

Rules for apelling are given, by the nid of which, the Orthograply of ihe majority of the worts in the hangunge becomes easy. Aud all the irregular and dillicult words are collected tonether:-they being the only ones which it is necessary to study simply for the purpose of becoming acequinted with their orthography. But their number is not so great as to preclude the possibility of getting through with chem, in a limited time, by ming a very few esery day. And by pieturing out two or three words in each lesson. the tencher may make it not only an intelfectul exercise, but highly interesting to the children.
J. II. W.
 Author ol the "Oht Rec Sindstone," dec. Halifax, N.S.: A. it W. Mackinlay.

This is the Arst volume of the posthumous works of the late Hugh Miller. It would seem that his widow, so celebrated for her liserary attainments. had resolved to collect and edit the scientific remains of her husbamil ; but searcely hat she begun when she was compelled, from the atate of her health, to desist from tho undertaking. This task has now devolved on the Rev W. S. Symonds, Pandock-Rectory, who seems well nble to do justice to it. The volime before us contains an account of "The Cruise of the Betsey, or as Summer Ramble among the lossiliferous Deposits of the llebrides," an well as "The Rambles of a Geologist" hitherto umpublished, save as a series of articles in the Witness newspaper. The continuousarss of the narrative is thus preserved, and this circumstance, even to those who rend it as it appeared in the pages of tho Witness, must greatly eninnee the worth of thu publication. We regard the work as apecially viluable to thes practical Geologist, furnishing an midnirable illustration of the best method of procedure in an exploratory expedition. "Tho Old Red Snndstone," and "The Footprints of the Creator," ns pieces of Descriptive Geology, must eser remain the favourite productions of our nuthor to the scientific Geologist ; "The Tes. timony of the Rocks" to the philosophico.Theologina; and the work before us to the practical Geologist.

## agricultural.



## I.---THEORY OF AGRICULTURE.

## AGRICULTURE A BRANCII OF EDUCATION.

Ir is, ve believe, an incontrovertible iruth, that it is the design of the Deity that the soil of every country should maintain the whole people of thint commery. For llis own parposes, it may please tho Alnighty to multiply the peophe of an isolated spot beyond the capability of tho land to support them. But history furnishes us with no elear case in which Ile has done mo. We rend of famine sad pestilerice being sent as his avengers, but nover that tho land, in ordinary seasons, could not, in any country, be mnde to mantain the whole population. Now, if his position be a sound one, then it is clear that no ordinary resporiaiolity devolves on the tillers of the soil. It is not only their bounden duty to provide for themselves and their hodidiold, but to use every effort so to develupe the enpabilitins of the soil, as that tho means of living are raised for the whole people,-alluwance of course being made for extraordinary sensons, which 110 skill or industry can arert. Nay mure, we lohd, that, if the position we have taken is $\Omega$ sound one, the whole agricultural intrrests of a country ought to enter largely into ail its political arrangements and dndertakings;-llat as much of a nation's prosperity and happiness depends on the skifful cultivation of the soil, so does it behors it to see that everything is done for its furtherance, and to give such encouragenent as. that this end shall be most extensively effected.
And in what way can a nation, in a national capncity, most efficiently advance clit cause of Agriculture:' Generally, we reply, by the diffixion of sound and thoroughly tested knowledge, both theorctical and pructical, respecting the whole subject of Agriculture; and by furnishing every stimplus to those who are engaged in this employment, to call in the aids of science and of art,-to senreh for and to avail themselves of those inexhaustible stores of good, which the Creator has everywhere laid up for them, and which He the more lavishly lays open, the greater the anoumt of bodily and mental fabour expended in tho starch for them.And how is this to be done? Principaly, we believe, by the Legislature and Government of the country giving to this department of its economical resources a conspicuope place in the common school education of the country.Much, very much, has been accomplished through the modium of Agricultural Associations, popular Lectures, Mragn. zines devoted to the parpose, Legislative Grants of public monoy, \&c, \&c. But these means, howerer valuable, in their way, are not sufficient to lay a thorough foundation of all the relations in which Agriculture stands to Science, to saturate the public mind with a knowledge of these relations. For this purpose the principles and laws of this knowledge must be understood and inculcated in our common schools. Just as the principles and laws of Book-keeping are taught,
in order to qualify the youth for the better performance of their fiture duties as merchants, so ouglit it to be with tho youthtul firmer. We are avare that this has been allempt ed in anme conntries, that Legislatures havo given n prominent place to Agriculture, both theoretienl and practical, in thirir untional fystems of education, nud that these efforts linve not bren followed with the resulta anticipated; that, in fact, they lanve proved a comparative frilure; und Ireland is quoted us an exemplifection. Now wo humbly apprehend that this falling short of tho desired result, if it may be so regarded, is not owing to its being introdaced into the nathonal eystem, but to the wny in which it is done,-its heing made a suparate branch of study and practice, with Modet Fintins and lifctures, and an equipment of lrofesṣors and Tenchers apart from the common education of the country. It is our decided conviction, that ir tho Legislative ennetments of the country refurred to, as well as of other countrics, instend of assigning to Agricullure an exelusive position, they had enjuined it, in all rural districts at least, as one of the branches of a common school education, aud made provision for a due qualification of their teachers in this dse partment, through the national Normal Institutions, fir more extensive and vastly more bencficial would have been the results.

In secordnace with these views and impressions we have all along plended for tha establishmeat of a small Experimental Garien and Farm, in comnection with the Provincial Normal sichool. On our carnest recommendation the Legislature of $18: 56$ granted to the Directors of that linstitution such a suna as embled them to purchase a lot of land, surrounding the Normal School Building, in every way suited for the purpose above mentioned. The Session of 18:57 granted $\dot{t}^{1} 100$, with the view of aiding in bringing these grounds into sliape and order. Aimost the whole of that sum was expended in the constructing of roads, and in the treuching of $n$ portion of the ground intended for the growth of Fruit 'Trees. In our last Educntional Report to tho Legislature we stated that all was now in readiness for commencing operations in this department, and applied for the annual grant of $n £ 100$ for four or five yeare, in the hope that, by that time, this fees of the Agricultural Students and tho sathe of the Stock collected would render it self.sustaining.That request was refused, not because of ang disapproval of the andertaking, but because it was deemed inexpedient in the present financial condition of the country to originate any new movement involving the expenditure of public mones. In the mean time we are doing what we can to bring the innd into working oriter, in the hope that the day is not far distant when tho Legislature will see meel to finish what it has bepun, and thereby place the cope-stone on this important Pruvincial undertaking.

We are much gratified in being able to quote from the Report of the Royal Agricultural Socicty of Prince Lidward Island of last year, the following sentiments so entirely accordant with our own, "In 1833 the Rogal Agricultural Society imported from the Messrs. Blackwood, of Edinburgh, several works on Agaicultural Clecmistry, by P'rofessor Johnson, a gentleman of great practical knowledge-for distribution throughout the Jeland; but your committee regret that their endeavours to introduce those works-whichare of a yery practical and useful nature-have not been nttended with anticipated result, and they despair of improving the condition of the young firmers of the Ioland in this way, unless some uniform system of Aricultural instruction be introduced into the Government Schools."

## STATE OF AGRICULTURE IN NOVA SCOTIA.

Tuene is perhaps no pursuit in tho industrial economy of nations that has made such atrides in acvancement, rithin the last twenty five years, as that of Agriculture. This bns been speciully the casts in Great Britain, owing mainly we apprehend to these three causes:-the progress of science; the advancement of the mechanical arts, and the growth of
tho Turnip. It is no doubt trun that events in Providence overrule, and control, and stimulnto ail these subordimate instrubse:talitics. This they do in every departuent of tho physienl well-being of nay comitry, but more particularly in tha cultivation of the soit. Nothing in this way, in these modern times, lins prodnced such results as tice hinilure, tho all but univeral failare, of tho Pootato crop, and that not for one, yut for a succession of years. Arrong other results, it has produced a complete revolution in the commercinl af. fairs of Britain ; and this agnin hus imparted a powerful stimulus to the apphention of these scientife discoveries in Organio Chemistry mnde several years ngo by Lorl Dundonali, Sir IImplirey Davy, De Saussure, Sprenke ; ann more recently by such men is Ninder in Ilolland, Leebiy in Germany, Dumas nall Boussengnult in France, Norton in in Americs, and Johnson in Eughand. The question "celi hono" is often put by the utilitarinu in reference to the reaearches and discoveries of the men of science. Whyemery thing, we reply $;$ and it is ouly the grossmess of his apprehension that prevents him from bookiige beyond the matter of pounds, shitlings nod pence, nud perceiving that, in nino cases ont of ten, every prollabla speceulation on whioh he embarks is owing to the discovery of somo scientilic fict, which up to a certinin time may luve hain buried in somo large folio volume, bat which, from events in Providence; has then been resuriectionized and turacel to practical account. The allusion noove made forms a fine exempliftentionf of the truthfulness of this remark. The discoveries of these savans lay entombed in their works for years, or at best were mere matters of specalation, until the great l'roprietor of matter as well as of mind arose to vinulicate the wrongs that had been intlicted on the vegetnble kingdom, through un excess of cultivation of the Potalo, and sent that blight which producen such havoc. This was the insmedinte cause of the carrying of the mensure of Freo 'Iyade in Corn in the lmperial larliament; which aroused and stimulated the British to compete with thes fore:ign growers, in fire more favourable circumstameer both as it respects climute and the condition of their seils. Ihis competition produced its legitimate results, inducing the former to resort to every means both scientific and mechanical; and it was then, and nos till then, that the noble discoveries of Davy and Sprengel, received that ateention which their inglartance demanded; by means of which the land was remdered enpable of yielding five, or eight, or ten tumes the quantity of ifs wonted produce, amed that too with mueli less mechnnical labour and much less injury to the snil than heretofore. But enough in this strain ill present.

The same progressive advancement in Agriculture has not taken phece on this Comtinent, and the: renson of this is obvious. It is just becanse in many disificts naturo has done too much for the larmer. In new and virgin soils, in the alluvind intervales and marahes, the ten or eloven ingre-dients,-to which we have atready referred,-as essentinifor securing the fertility of the soil are to be found in sensible proportions, and thereby render the application of science and mechanienl art in a great measure unneecesary. In the old or cultivated districts, however, the continued cropping of the soil is beginning to produce its legitimate results, and those landa capable of yielding from thirty to forty bushels of grain per acre, now, with a grent deal more labodr, scarcely yield cight or ten. The crops that have been taken off, have robbed them of many of their ingredients, and theso not being replaced, the grain has very properly refused to grow. The lirst effect of this state of things is emigration to newer distriets, such as is yearly faking place from Lower Camala to the Far West., lint others are here and there pursuing a surer, maro profit:-ble and more exalted course. They are beginning to apply science and merchanical skill to the culture of the soil, and ns the beneficial results of these efforts are more visibly apprelented, they will be resorted to by a much greater number.

Nova Scotin has shared, to a certain extent, in this inprovement. Never before was such na impulse imparted to the whole cause of Agriculture in this I'rovince as was done
anmo thirly yenrs ngo through the instrumentality of Mr. Johin Young. 'Tine inlented and hipily educated gentle. man, in lis letters of Agricoln, presented a very luminous exposition of the henrings of aciance on Agricultare, and ex. emplified these in a vary satisfuctory manmer on his Farm al Willow J'urk, "erar Ilnififa. He proved that the doce trines lie taught and propngated were sound hy the exhibition of their practical results. Hence the organization of Agricultural Associntions throughont the l'rovince, with a Centenl llonrd, and an Annunl Grant from the Legislature, - umber the nuppiecs of the liarl of Dallinusie, thu then Go. vernor of Nova Scotin. Dheso Associatinna, on the wane for a number of yenrs, were considurnbly revived six yenrs ngo by sir Guapmal Jomarehant, the late Governor: who exarecd himedf very laudably in the introduction of new breeda of Catle nud in the encourngement of Agricularal Exhihhitions. This movement was much assisted by the hat Eductional Einactment, requiring Agricultural Chemistry to bo trught in tha higher stenimaries of lenrning. Alhis last mentioned circumstance drew tho specinl interation of 1'rincipal Dawson, chen Superintrmiant of Blucation, to the suliject of $A_{\text {gricultures who wh his lectures, experiments, }}$ and pablientionx. dithuned throughont the Province antime mense amount of valumbly information. Still little more had been dona than thu breaking up of the fallow gromad. The high seluntilic priaciples, so lucidly prefented in the writings of'Apricola, mal, more recently, by D'rincipal Daweon, must be carried into far more practical and vigurous operationsA great variety of me:ans must bo resorted to for this purporic, to which, as time and opportunity admit, we shatl revert. In he mean timen, we may specify a few of shem. 1at. A remotelling and un infuxing of new life into the Agricultural Loctrtios iliroughout the Jength and breadth of the Proviner. 2nd. A willer diflision of infurmation velative to the pecumiary benefits, to be derived from a scientitio culture of the soil. Brd. A preater adaptation on the part of our farmers to "xtermal circumanaces. hoth as it regards soll and clamic. shi. A far more eareful hurbanding and preparation of all the carietion of fertilizing media; orgnnic and inorganic, matural nad artiticial. Eth. A greater breadth of land devotad to green cropping-overy linras with thirty nerss of arable hand ought to have three of these in Turnip. Gith. The rotation of crops bunst le more rigidly adhered to. 7th. Warmer and more commodious housing must be provided for the Live Sluck.

## 11.-PRACTICE OF AGRICULTURE.

## GliNERAI TOPICS.

## sumyace: maiuniva,

The capital of the Farmer is his manure or composit heap,tho fertilizing media. Whenever the Darmer thoroughly believes thin, trom his own practical experrence, he is on tha high road to prosperity, in so far at least as has agricultural operations are concerned. As then the Merchant strives to keop up his credit with the luank so ought the liarnier to ilo with his Compost llads. Jhat more of this anon Wo have introduced tho sulject hero for the purposs of calling attentiou to a matier too litho attended to in this comutry,-we refer to surface mnnuring. This is a practice now very' generally followed in countrics whers the cultivation of the soil is in an advanced state. Whenever the lianmer sees any field of gram, as it is starting into verctation, of a sickly growth or thin of plant, ho topdresos it. Ile generally appliea the mapure at two times, the period of application depending or the state of grouth.Tho tinu most suitable in this country for surface manuring of grain crops may bo from the midille of Jane to the middto of July. The etate of the weather should be studied, as the action of the mamures depends mainly upon their being washed into the soil. By the use of the harmos the manure can be mused with the soil, and thus brought nearer the roots of the plants; but the prosence of moisture to dissolve the manure,
and conrey it to the rootlets of tho plants, is cerential for its boing taken up. liesides, when certain manures aro exposen on the surface to drying sinds and sunshitue, there is nlways a dnnger of the moro volatilo constituents passing into tho attmose phere. The best kinds of manure for topedresing aro thoso contnining, besides nitrogen, a portion of phoxphate, a mixturo of nitrnte of soda or of sulphite of nmmonia, with a portion of dissolvad bonts. Une owt. of nitrogenons with one cert. of phosplate mamure por acro is suffioiont, execpt tho land is ill a rery low condition, nud the appearaneo of tho crop unseasonably backward. Joruvian guano may bo substituted for tho other manures, two or threo cirt. to the nero. This spring wo sowed in the lixperimental larm nbout an nere of wheat. Tho ground, being very much axhausted, the plant looked oxceed. megly sickly nud yollumish when in tho singlo laaf. When tho sceond leaf was beginning to show itself, wo sowed six bushels of erushed bones, and in cen dnys tho chango was very notiecablo. The bono dust was of rery excellent quality, and was ob. tained at the now mills at Wallace Ilarbour, County of Cumheriand. Ihough wo have not visited thesio mills, wa are ine formed that they are of a superior order ; at all ovents, tho crushed bones wo obtained from them seemed to bo of uxcellent quality. Tho establishanent is deserving of every cucouragement.

## noo nud.

Between the hay-harvesting and the grain-harvesting there is trequently an interval of tro or three weeks. This is nomexcollent opportunity for preparing tho compost heaps, particularly for mixing bog mud with limn or ashes, or common mnnure. The following description of mixing these ingredients is takea from Darson's mork:-

Bog. M/ud, of which there is abundance in this Island, is a most valuable manure, but very generally neglected, one frep icnily sees a farm poor and worn out, its owner complaining he cannoi gat manure, and yut in the midst of his worn out fielify lies an acere, or half nil sere, of mud, from two to five feet deep, containing mmure suffisient to make ho wholo farm as rich ns a gnaden, if ho vould but use is. An American Agriculturistrapeakingor boginnel smanopg says:-" Such reservoirs of vegelable nutrition aro mines of weallh to tho farmer, if judiciously applied; nor can he justify mengre ro. turns from his fields whilo this remed is within his reach." This kind of mud frequently conlains nn acid quality, and then if spread and ploughed in fresh from the bog, it will be of little or no service to the first crop, and may prove injurious to it ; yet, oven then, in a year or wo, its bencficial affects vill be evident, and vill bo tounul durable.
Bus to make it proluce prompt and immediate effect, it should be mixed with manure, or lime, or ashes, wheh may be done in warious ways In mixiny it wilh manmre, the plan I pmaus-suggested to me by Fensenden'e Complete larmer-is this: I first form a bottom of mud fifteen feet wide and eight or ten inches deep; then lay on a Inyer of manure about six inches deep; then eight or fen inches of nudid then six inchurs of manure, and so on, alturnate layers of muil and manure, till the heap is about four and a half feut high; the silles, enils and top are then coated with mad ten ar tivelvo inches thick; the manure amil muil should be thrown on from each side. and no one allowed to tread on the heap, becalse, if it is packed too closely, it will notheat so well. The dryer the muil the less mannure vill be requirel to cause the whole to heat. I generally make the courpast in August or September, and ure about ono load of manure to thres of mudi; if not mado up till October, I use a larger propotion of manure, as moro is then recguired to protuco heat than whun the weather is hotler. Enrly in thu spring the heap is curned; it then heats slighty again, and is ready for curmps or other crop. and a cart load of it will be found equal to a cart land of farm yard manure.
In mixing it with lime, I have found twenty barrels oi raach lime suflicient for one hundred cartloids of mull. The limio should bo slacked benide the mud, and mixed with it while it is hot; it should remain a year in compost, and be two or three thes turnce.

## SPECIAL WOMK FOR AUGUST.

May-makivg.-The former part of this month haspmed excordingly precarious for Has-making, and in many places, it is not yet mown. The best plan in theso critical circumstances is to cut as little as possiblo at a timo and to propare it well, making it " when tho sun shines," for the barn. It is all the more tender and nutritious and benoficial for tho milch cows
when it is housed beforo it has lost its swect aroma. Tho following uppropriato paragraph is from tho Neio Englanl Far. nucr for ${ }^{\mathrm{J} u} \mathrm{l}$ : :-

Learn to swing the scythe with an cany, uniform motion, and kerp yourself as muela as posible in an erect position. Do not at. tempt to cult too muech at one siroke, or to drive tho seythe through tho prass by main strengeth. Nowing does not require so great an outiny of strengih as maniys zeem to suppose. With tha right stroke, and a keen seythe, mowing in pleasant work, capecially when the dew falls in pearly drops bufore overy siroke. "Mako hay whilo thu sun shines."-but jou must pet it cut carly to make, by the timo the sun alines bright nod elear, and then it will bo realy to "eet on cocks," before the dow of evening gathera upon it. licep it stir. ring and toasing in the hrights surshine, throush the tuildile hours of tho dan. Ilny -making is busy work. Thure is no timo for idling. llay should bo put into tho barn warm from the field, and well slowed in the mow, ant it will come out fresh nond fragrant.

Grare Meaping.- Iato though tho season bo, by tho end of this month or beginning of' next tho grnin ficlda will bg whitening for the harvect. Cenerally spenking, wo aro apt horo to fall into tho same mistako as wo nro in reference to tho llay, viz, to allow tho grain to be over-ripo before it is renped, which rento s it very linblo to bo injured by winds amil rain. Wheat should bo reaped a little before it is ripe. The uppormost grain ripens before the othera in tho eamo ear, and the whole car, in ripe before the straw; if you wait, therofore, till tho stray is ripe, the cars will bo too ripe, and the uppermost grains will be lost. Oats should be reaped then under-tipe. Being well protected by the amn this grain is not easily slirivelled up like Wheat and luarley, and it tills nad ripens in the slock. Barley should not bo reaped until it bends down its head entirely and prescints a light colour. No grain shrivels up more, if it is undor-ripe when cut, and no grain bears orer-ripeness with less loss; for the grain holds on alter the awns have been blown off.
barley and Oats are generally mored with a soythe with a hoop or cradle. One man can do us much ns four with the sickle in this way $;$ and, where laborers aro searce, a great deal of timo and labor may bo saved. In some of tho best faraing districte, however, both in England and Scotland, some of the greatest firmers have pronounced this a slovenly and wasteful mothod, and prefer hinding into sheaves, to saro the grain foom being shed by the raking and tossing about, and for tho convenience of having tho Corn laid on end in sheares for protection in raing weather. Tho Whent crop is very generally cut in 13ritain, and in many parts of Nova Scotia, with the reaping hook or sickle; and this method is certuinly to be preferred with this crop. It would be of great adinntago were the short, broad soytho employed in Hauders, and in many parts of Scotland, introduced into this country.

Whear Midas on Wrevil.-Wo have received, through tho kindness of our friend, Principal Dawson, a very iuteresting and important treatiso on this subject. It is entitled an "Essay on the Insects and Diseascs injurious to the Whent Crops, by П. Y. Find, lisqu., Professor of Chemistry at Trinity College, "Toronto." It would seem that the IBureau of Agriculture and Statistics for Upper Canada offered a prizo of ex 0 for tho best essay on this subject, and that to this, is very elaborate and scientific description of the whole subject, was adjudged the first prize. We shall very likely refer to this work in a subsequent number. In the mean titue we give bolow a summary of the results arrived at after a series of experiments on this matter by Priucipal Dawson, and to which bonourable reference is made in the above essay :-

The facts above stated may be summed up as follows:

1. The insect depnsits itt egge on the grain about the timo vhen it is in flower, and usually in tho eveninz.
2. The iarva when Latelsed attacles itself to the young grain and prevents its growth.
3. When full grown it becomes stiff and torpid, and if le $\cap$ long enough falls to the ground.
s. It buries itself in the ground and thus passes the winter.
4. In July, it emerges from the ground as a perfect insect, in wh:ich state, if the weather be farourabie, it seecks the growing wheat for the puryose of depositing the germs of a new brood.
basily, though there are many partial remedies, the only sure one is to cut early and destroy all the grubs found affer threshing the grain. To ensure safety, this should be kept up as regulariy as the ryashing of seed vheat to avoid sumut.

Sabtivic of Buttir.-" The Arkins ara ecasoned by firignent Tashing, and exposurn to the arr, or bje ferubhng tho firkin with eall nuit water boilea. If is then dried, anm salt strewed on the aurface, before the butier is put in. In the ondinary proceses of salting, alfer separatiny the huttermilk as completel); as poophlionsalt in tho proportion of about one ounce to a ponnil of butiter is rorkerl in thoroughly, so as to bereme incorporated with the mass; for if not. equally mixed in overy part, tho butter will aequiro iwo colours, or becomo 'puely' of pinnowed.' 'The salt should lo of tho purest kinh, well Irimed nal broken down, latt not completely pulvurized. Had salt will soon enuse it to bereonte ranciul. The following preparation is recommented as buttor than salt alono."
"Two parts lest solt, and one part cach sugar nud maltpotre, well mixal; one ounco to dach ;euthid of butter. lineurpornte it huroughly with tho mase, and eless up bor yore."
"It will ho necessary to keep butter thes prepared for two or lireo weeks aner it is curel, beloro using ias utherviee is will not tasts well; but if propurly cured accorling to tho aboro preseription, it will continue perfeetlys avect for threo jears or mure."
"Alter sireming salt on the botlom of the lirkin, the butter may be peckedin, thotoughly monding each hayer into that benenth it. Then the cask is full, more ands shoulid be atreseed on tho surfitce. and the hiend put on. If the butter has been well froedf from milk, anul diu malt moulded into it quite dry, it will not slirnk from tho ensk. This is in ways regarded as ond eriturion of the goothess of the butior."

## AGHCULTULE.

## fiom the (1ictmi) Timen Mhyazine.

Among tho various methorfs of umproving the condition of Agriculture, suggested by the most enhlyhtened modern argricultura writers, protably netio is destmed oo perform so conppichous nad
 public minal is now oeinge turned, we should hope, in favour of thas muvement, and there are novs in these l'rovinees, in the United States, and in various parts of Earoper, gentemen to bo found possessing the very highest orler of inteliect, who are strongly inngressed with the necessity of establishing a higher grale of labuensonal Institutions than are generally' 10 bo met with, for the eilntation of farmer's sons, of hlose joung men who have a destre 10 become thoroughly aciguainted with the scienee as wellas the practies of agriculture.
So far as thy masses of nankinal are concorned, the only opportumty that will be presented to them, for the clucation of their chihlren, is the commion selhoot. The: instithtions, unter eflicient managenent, and with a liberal support from those whom they are intended to benefit, will exeri n pinwerfal inflacence on tho duture destinies of the country. 'Jo make themeflieetua! in tringug abous the good so much to be dexired in a country so opricultural as this, It will be necessary that the teachers be thurybubly taught the principal radiments of ayricoltural edveanion. Ji the llesign of this institution, the Normal Sehool at T'ruro, 'se fully carried ont in practice, it will uttimately have a very salutary influence in clevatho the character of comanon schoo! education in his province.
As iapostant as are the interests of commuin st hools, nand that of combining with those institutions, branches of sladier, that from their nature would have a pecular tembency in inyming the ayricultural youth of our land with a tate and proper reverence for agricultural pursuits; still, a hemper orter of ngricultural instruction is guite as necesiary to limsh the education of a pemteman farmer, if we may be permitted to hse the term-ats Colleges and Universities are required to timish the cduedton of y ouny men, who aspire to the praciice of the learnal profexsums, Conmeree, Eng. neering, or any olher of the higher bram hes of learting. The period has at last arrived in the fistory of Nova Sentid, when tho agriculturisis as a boly, fenl hat they hase been negleesed lay those who ruled the destinies of this previnee in years past. All who ruflect upon the suljeet, aloo find that this atate of thangs must continue to exist to a cunsicerable extent, so longo as the education of their sons is confined as has been heretofore the case wilhin the walls of common schools. We have at the present puriod a very largo and respectable class of firmers in Nova Scotia, who are independent in their circuastances, nut who are impressed with tho neeessity of liburally cducating, their, sons and daughters, so that they may when they grow up, in point of education and refineenent, bu entited to rink wilh the lirst familes in our lamd. The farauer is the nost usetiul, the most independent, and certainly should be the most liberally enduested man in our cothery. Att. other interests are dependent on him. The tarmers are the class and the only class that are capabla of suxtaning the human family, and also in mantaining our commercial and national credn. As trilling as our exports may appear, still without them we would be-
conno a nation of rommercial bankrupts in lese than treluo months． And what wouht pignify tho amount of revenue that rould acerue en government，if if wero not for the large amount of forcign gomls that aro anmually consumed by the agricultural clasea？The amount coilectiol imom ohlier clasers，if thuy liad not farmern to pase tain them．would bo comparatively insignificant，and would not be auffecient to unaintain the natuonal eredte of the purnenee as single monilh．Then tho farmerm ahove all olher men phould be elueatel． and an the motine of thrir operafiona on a farts are practical，athil modiro a large amount of akill，anit likewiso ecience，fo wanl off tho orila that so frequentls prove disastraus to the empa，to tho cdu－ ention whinh is imparted to the roush of our lands who neprot to this honoralile profession，shoulid lus both practical and mientific， and eapecially of that clanractyr that would yualify them so perform the very important ninl repposible dulics that thoy ang bo ro－ quired to execultu as farmera and sintesmets．

W＇o camot yet find room oilhor for our Agricultural Intelli－ genco or our Iforticultural Ilepartment．
 dont Saurian havo been tuund in one of tho recently opened Coal Mlines in tho County of licton，A full doscription of those will bo giren in our next number．

## AN INDISLENS \＆BI，I：SCIRODL－EBOOLL．

##  <br> GEOGRAPHX AND KXETORX

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