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## Iu 823 :

## FIRST REPORT

OF THF

# committee on the relations between 

 HIGF SCHOOLS AND CQLLEGES IN NQVA SCOTIAappointied at the meeting I.. 1. . 1.

OF THE

PROVINCIAL EDUCATIONAL ASSOCIATION, AUGUST. 1905.


## First Report of the Committee on the Relations between High Schools and Colleges in Nova Scotia.






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In necordanco with the alnow remolntion the following members ware "plowinted:


J. W. latim, of the Il:ilifin .

Principal R. Mncleellan, of the Pioton Ac:adony.



Wr. L. E. Wowthan, of Aradia College.



President Imo Hatmah of Kinges (oullogre.
Professor Lot har Bolser, of King's College.
Professor C. M. Drennan of St. Mary's College.
Rev. C. S. Mr.Mams, of St. Mary's Colloge.
Rev. Dr. McPherson, of Sit. Fituris Xavieres College.

Profonsor Luwawl Maraly, of Dillousio ('olluge.
Professor Ebrol Mackay. of Dallowsir $t$ billage.



 wore held on this and the smorouding digs. there of the whole committee and



The committer wrov mimimomsly of the opinion that, in mathematical and in science subjects, the standarm in our schomb had been miverl in recont yems
and the work in them had lween greatly Improverl and would compare favorahiy with that dome In the achools of any other conutry: Int that langunge atmlien
 this renpect behind those of the most progromave and enighteneal cotintries.
 Iations letween the high sehoole and the roiloges. The alvane in the standard in mathematheal ami in welence subjects and the making of both of theme lines compulsury on all high schoei pupils, inal brought about in thewe all overlapping of the colleges ly the erhowif, ath, to a vold the wante Involved hindicating work already dune In the sehowlw, It iund been fonlud necesmary for the calleges to realjast their coursen In mutlematical mubjects by raising their standari by an amomit erpual to the work of nlout one spanion or year. On the other haul the putting dowit of Latlu, Greak. Freneh, and derman, nerely an extm suljects to be takest up or not just as the pupll or tencher naw fit, placed these siblojecta at a great dinadvantage as compared with the otherw which had been male compulary, and resnited in a consklerable dhmbuthon in the number of those studylng them and In lews attention being given to thent for, with the spirit of enulatlon engendered by the government examinallans, foth teachers and puplis naturally directed their attention to thome subjects foom which there was no escape, and in which arertain minlumil of marke had perforce to be male, If the pupll was to receive the coveterl "pans" certificate. In the came of these languages titerefore, and more partioularly fu the case of Latin and Greek, the schools ind been fuling away frout the colleges, and although the colloges had beron trying to keep htomeh whth the schosils by rapeated lowerings of their ent vauce requhemente in thewe wibjects, a polnt had been reached when it had bern fomm abobintely necesmity to start beginners. classes in the coileges in lwith Inth and Greek in order to accommexiate the many who now enter college with little or no previous Instruction In thowe mibjects, and who whit io accuire a knowledge of thent. It is to lew hoped that these clansen, or that in Latinat nuy rate, may not be fommel necessary formore than a year or two after the present high-schonl contere itan undergone revision.

The committere helieve that the conrse of athdy in the high scheol shonld be such as will nut only furnish a somul uental equipument for those who lenve the school to enter upon tice bunluess of iife, but wili ales serve as a flting preparatlon for those who may wish to continue their st ulies in the college or professional school. It is certainly one of the proper functions of the high achuml to serve as a counecting link bet ween the picmentary whool and the college.

The conmmittee beieve further that these two objects which nonilnally appear differentareafter all essentlally the same; that the alm in both casea shauld be to really edncate rather than instrmet, to Iniprove the character and to develop and st rengthen the Intellect so as to bring it to the highest possihle condition of efficiency in whatever spbere it may be called upon to act, rather than to cram the uemory with a number of bite of kuowiedge however Interesting or valuable these may he in thenaselves or in the eyes of the advocates of so-called useful knowledge.

If the work of the colleges is being conducted upen right Ines, If the large number of those who perhaps know most abo it edncational matters and who are able to avall themselves of the opportunities afforiled by the colleges, are doing right In secing that their sons and daughters have a course in college for thelr intellectual improvement before they go into business or a prufessional school, then surely the still iarger number who feel that they ure not able to avail themselves of those opportunities, cannot be going very far astray In
having their chiddren fuilow a mannewlent aloulilar coutume in the light mehonis and
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## PROPOSED HIGH SCHOOL COURSE.

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## PRESENT HIGH SCHOOL COURSE.

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Algebra ..... 100
Geometry ..... 100
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PROPOSED COUPSE.
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## PRESENT COURSE.

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## 4. Imperative Subjecte for Claselcal sice.


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C. Optlenal Subjecte for Both Sldea.

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 expresserl themselvan as andions for this form the conviation thent it wonk resmit in fur tetter work hoing afterwarls done in thoir own purticular subjects, for the experionere of those nethally rognged in tonching geres to shat that


 smbjects and noromplishing mow in them than the lsy who hus not been snbjectal to that discipilar. 'The rommittore therefore, white not proposing to minke Jatin a compulsory suljout of minly in our whinols noy more than algebra or history or chanistry, aro monnimmaly of the opinion that a




 whonld constitute the furth yrin of the high selnool connse.

[^1]It was agreed that the consideration of the smbjectsand haoment of work in them that shond be required of candidates for tenchers licenses of grade $A$, shotid be left to a sitherommittere consisting of lirlncipal K. Maclellan of Picton Academy: Prlncipal IV. R. Comphell of Truro Acadeny; Rev. 1)r, MacPherson of St. Francls Xavier's college. Antigenish: Princlpal F. J. Lay of Amberst Acculemy ; Principnl J. A. Ammstrong of Sydney Acudemy ; Princlpal W.F. Kempton of Yamonth Academy; Anpervisor A. McKay of Halifax.

Committees were also appointed on different subjects. to consider and to indicate in some detail what shomld be taken up in those suljects, and to give suggestions as to methols of teaching them. Those appointed were as follows:

## 1. (llatasich.

Professor Howaml Morray of Dalbonsie College, Ilalifax.
l'rincipal R. Maclellam of Pictom Acmlemy:
Principal E. W. Sawyer of Ilorton Collegiate Acadeng.

## 2. Mudern lanulacien.

Professor L. E. Wortman of Acalia College. Wolf ville.
Professor II. Natrlherson of SI. Prancis Xavier's College, Antigonish. Principal W. F. Kempton of Varmonth Academy.

## 3. Fintimil (including History).

Principal Iavid Noloan of the Provincial Nomal School, Troro. $p^{3}$ resident lan Hannah of King's College, Windsor:
J. W. Logan of IIalifax Academy.

## H. Mathematien.

Inspector A. (i. MacDonald of Alligonish.
Profensor (: (: Jones of Acedia College, Wolfville.
l'rofessor I). A. Marvay of Dalhonsie Coblege, Halifax.

## i. Silence (incloding Drawing).

## J. E. Barteatax of Trure Acndemy. <br> C. l. Moore of licton Academy.

Professor Eben \ackav of Dallonsie College, Halifax.
A smb-committere was also appeinted to prepare for pulication a report of What had alrealy been done, setting forth the tentative connse of study and giving a statemerit of the goneral principles followed in the franing of it. This committere was also instructed to collect opinions on the foroposed romse of study from teachers in the high schools and academies, and inspectors of schools thronghont the povince, and to invite criticisms and shggestions.
 Professor Macl'herson, Drineipal Maclellan, Principal ('inophell.

The comaitere would remind those whotake an interest in edncation in Nova scotia that it is now somoce fonrteren vears since any material ehange liats baen mide in the comser of stmdy prescribed for ont sehools. During these fouteren years the wobld has biot lsen standing still. The inimntance of edncation is coming to lye more fully realized, and the interest in it has beren growing more butorse. This perion of fomtech yeans has seen an inmense amomot of time and thought mad mited olfort, mone perhaps than any previons century of yrams in the world's history, devoted to educational problens b: the ablest edncationists in many conitries, and notably in Great Britaln, Germany, and the Vhited States. İy far the langer part of these efforts moreover has been concentrated on the coilasideration of the best connse of stody for pupils in surombary or high schools. Some of the results arrived at by these fabors are open to his in a mumber of exceedingly interesting and vilunhle reports. and it woald be strange indeed if we ing Nova scotia conld not learn solucthing firmutheon. Among these there are fear dormuents to which the committere desire to dirert the attention of onr teachers and the publie In
general.

## *These are:

1. The Report of the Committee of Ten on Secondary Schools Stndies.
2. The Rejort of the Committee of Fiftern an Elementary Education.
3. The Report of the Committee on College Entrance Requlrements.
4. Problems In Prinsian Secondary Edication for Boys.

It ls probably not too mich tos say that in these documents are to be found the most valuable contributions to secondary education which have ever been published; and, as they have been issued at a merely mominal price every teacher and every one else wha is interested in educration should possess copies of them nod make the suljects of careful stady.

To indicate more particularly the character of theae docnments, it may be stated that the Committee of Ten om Secondary School Studies was appointed in July 1892 by the National Educational Association of the United States, an association whose annual mectings are attended hy nearly 40,000 educationists from all parts of the comintry, the purpose leeing to consider the whole subject of secondary education and to see in what why improvements could be made in the existing system. Ten of the lemding educationists of the country were appointed on this committee, l'resident Eliot of Harvard University being chosen as chairman. This committere being authorized to appoint athers to assist them in their deliberations, selected nincty mure of the ablest und nost experienced edncationists, care being taken that elifferent subjects and that different parts of the country should be fairly reptesented. Care was also taken that equal representation should be given to those experfencel in general school affirirs and those whose work was of college or university grade. An appropriation of $\$ \mathbf{5} 00$ was made to ment ncessary expenses. After labors extending over about a year and a bilf the conclusions arrived at by these hundred experts were enibolied in a report issuct in 1804 .

The Committee of Fifteen on Elementary Elucation was appointed in February 1893. It consisted of state and city superintendents of schools together with President A.S. Draper of the Lniversity of llinois, and Dr. W. T. Harris, United itates Commissioner of Elucation. To assist these in thelr investigations, lists of questions were drawn up "which the members were directed to submit to all persens thoroughont the comitry whose opinions might le considered an of value." An :ppropriation of a thonsand dollars was Inade by the National Ealucational Association towards the def raying of necesary expenses. The labors of this committee extended over two years and the results are contained in their report issucel in 189.5.

The Committee on College Entimue lequirments was appointed by the Departments of sicondary and Higher Education of the National Eincational Association at the Denver merting of luly 180): their report was submitted at the bos Angeles merting of July inh. The work wats carriod on for the most part at individual and private expense: but towards the conc. the Association placed the sum of five humerod dollars at the disposal of the committee. Two preliminary reports appenred; one in l8ks, a secont in $1 \times 97$.

The final general report bears twelve sighatures, but this list forms but a

1. Report of the Commitice of 'Ten on Secondary Stulies, with the Reports of the Conferences arranged hy the Committer. New York: American Beok Co., 184. Pp. 240. 效erents.
2. Report of Committer of Fiftern on Elententary Education, with the Reports of the Sinb-(ommitters: On the Training of Teachors: On the Correlation of Studies in Elementary Eduratien: On the Organization of City School Systems. New Lork: Americim Book Co., 1805. Pp. 23i. 30 cents.
3. Report of the (ommitter onf Collogre Fntrance Requirements, Chicago : The Intiversity of Chiengo Press, 1mb. 1'p. 18\%. 2isecnts.
4. Special Reports on Secondary Education in l'russia: (1) Problems in Prussian Secendary Welucation for Hoss, with Spceial Reference to Similar Questions in England, ly Mirharl E. Sidlec. (2) Comricula and Programmes of Work for Higher schools in lPrussia. Lendon: Wyuan \& Sous, 1890 . Pp. 239. 18.
very smull fraction of thome who contritmod in time, lahno, memey mad ideas. towarde the making of the report. The "partial list of these whe havenssisted ind the preparation of this report" and considered wortly of speciat mention,
 gave assistance, one nlome with itsanxiliary committere inchaled no less than 32 emincent edncationists fivm widely diflerent parts of the cometry, nend this ond section alone semt out over six thomanul cophes of a cirenher of impuiry
 conmittee a mass of material fors consideration- placed in the hands of the opinion of specialists-simely us hat never tefore reat information, and the
 course of instrmetion in atrout a tlemsinnd high insestigation of the
 teachers. And this was only onn sertion ont of nimes fom thelve hundred the committere say "The riperts that tollowe hooth that of the introdection apointed Committere on the college Entrano Reqniwnomts ond thore of the special commituess appointed by the eminent assectiationstorganized for the purpese of advane ing the int evests of highere colucationatong sperial lines, are the result of fomr years of thanght. stuly, mad inverstigation. They contan, not

 question since the meeting of the National Educational Assomiati,n at Denver,

 secomatar selooels of the "ommery:
 position in England as an colncational anthonity. gives a most intervesting and ilhminating sket ch of the history of seromblay chacation in (ienmany from the begiming of the nineterenth cevitury. Su other combtry has made educition
 the fierman schowle lite is not on murh to be womberel at, therefore, that





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## APPENDIX 1.

# The Importance of Limiting the Number of Subjects to be Studied. 

## The U. S. National Educational Association's Committee on College Entrance Requirementel

In the interpretation of the revommendations of this committee concerning the subjecte to be inchated in the secondary-sehool programme and the requirements for mhassion to college, for which credit should be given, it is distinctly malerstomb that all secondary selmols will not offer opport unities for the pursuit of all these sulbjects, and that the colleges will select those only which they deem wise and appropriate.

The very large secombary whowle comtaining six liundrexl or more pupils are probape, the onfy ones which can offer all the stuches which the committee ellmmerates as legitimately belonging to a fonr-year's secondary poghamme. Nopupil in these sehools can pursue them nll, fon no study shonld oceupy less than one yent, and wo pupil should rurry unore than four regularestulies ichich
 curiculnm, without any cousidernhle extra expense. The smmaller sehools nust content themselses with more rigit programmes. (Report, p. de).

It is felt that the acopeptance of the proposed wider range of options. combined with the insistence upon such a method of trentuent. upon such amome of time, and upobsuch facilities for thathing as will serure good educationm
 inthence in persuading ligh schoole to adopt the primeiphe of acleting a fere

 our which prevals in st many of our American high schools. And it is believed that this will be a very valuable educitional result. (Rejoert, p. is).

The statisties show that in these nine yeats mached progeress has been mate

 iucorase ia the momber of stulents pmoniug such stulies ns rigelora, geometry, history: Latin, and (ievuma, fin exerols therato of increase in the total enrollment. This fart indirates that stulies of rewted imporfumer are rereiring

 (Report. ). i; ).
 diseipliur. (Rcjoct, o. : …)

## The U. S. National Educational Association's Committee of Ten on Secondary School Studies.

Sidertion for the individnal is necessary to thoromghers, mad to the imparting of pown ats distimgnished from information: for may large subject
 and be st udiod from three to flee times a week, nod if emelh subject stmbied is thus to chan a comsiderabld fration of the pupil's sebool time, then cleaty the iudividual pupil can give attention to only a moterate mumber of subjects. (Rigsut. ). 4in).

If it a secondary sohool tatin is stendily pursucd for four years with four ow five hours a werek devoted to it, that sulbjeet will be worth nore to the pupil than the sum of half a dozen other subjects. ead of which has ouresixth of the time allotted to latin. (Rrport, p. i. i).



informution in a meriety of firltw, hut nothing which cen he rulled a thomongh oviining. (Rrport, p. s:)

## Professor Prledrlch Paulsen, of Berlin.

Every year the pipil nimst complete the appointed tale of exercisen in *eren or eight diatinel nuljerefs or else lose his pronnotion. The result of thls is the feeling of tellsion which people call " otcr-ppexsere"" ant evil which has not been abolished and cannot le argued nway. (From hls Miwlory of Higher Educution in (iermeng.)

## Profeseor M. E. Sadler. of Mancliester.

Greater Intensity of work within nimrower limits lut with more training in the power to thlnk and to flnd out things and with less absorptlon of masses of knowledge la likely to give letter resilis thati ate an ovedoaded cirrlculum and multiplicity of suhjects. (Firom his recently puhlished Science in Nintiomil ucration.)

The attempt to teach too many smbjects loadn to smattering and to intellec. tnal Indlgestion. Pupils who lave suffered from the process seem to have very little real appetite for contiming their stimles. Their interests are deadened instead of heing quilckened.

Let is avoid over-tembing. We do not want to prosirce a passive generation. Il is far lefler thot omi foym aml firls should lewr" " liffle thoroughlf thanget " smuttering of " "Icmber of wutijerts. (In Srhool World for September

So many new suhjects nud new idens are crowding in for recognition as parts of school curricula, that it is inpossible to make room for them all in any single scheme. And we kiow by expelience that subjects which look at flist sight eminently snitable for cincational purposes, do not always prove so excellent when the first flush of enthasiasming finded. . This disillusioning experience strengthens the instinctive feeling that we whall do wisely if we hold apparently usels of intellectinat discipline whichl lowever old fashioned and apparently useless from a procticnl point of view, do at least possess the sold merit of being effective for their purpose. . . Thits we come to value, more han we once thought possible, old methools of traditional edrcation and cling to them as at any rate all cescontial purt of our selheme. But other subjects still make an irtesistihle clain for almission, and thins, in spite of all efforts to the contrary, the curriculun grows and grows mutil it is in danger of breaking down ly its own weight. (P'obleme i" Promsian" Secomdary Eilucalion for
Boys, p. las ).

But in atempting to fix a formana for what slall be regarded as the moral onteone of a good secomdary macation, there are for special clungers. We tuay decide on the cerong ingrealients, or we may put in toe monly of them. The first mistake ends in the productinll of the wrong kind of men for the work which
 unt porers, or (if ar* "I worr-pressure is avoided) urertoin tark of fome in the minh. It is adn' i. minly Girman writers that, in the listory of higher education in the iry dinfing the present contury, the reality of these dangers has bren oanerved. To remedying sach evils where they have heen ascertained to exist. and to gnamling against them at points where they have Enen thonght likely to arise, the best intelligence has bern stendily applied eradicated

Sir William Anson, Parliamentary Secretary to the Board of Education, Englatid.

There are two conflicting viows as to the character of the edication which shonld le given in schools. Thero is the view that edncation untst be liberal, that the student mist be bromght into contact with great masterpleces of literature and acquire a general knowledge of history, and, on the other hand, chere is the commercial view that the st midents most learn modern languages becanse they have a prosent commoreial valne, learn seience because it is supposed that a knowlerlge of the principles of seience is capahle of being turned to some immediate account. The resnlt is, thint the unfortmate students
are not made to inderstand that if their edneatlon is a liberal edncation it ann, nevertheless, the turned to the development of thelr fnemitles, and not merely to ncruaintlig thent with nuthors in whom they may not perhaps le partienlarly interested. In the endeccour lo rombine in nome wehools the libernd

 the sfichenl beromes hopelessly confosed, In some of our great seliools a boy is expected to lrarn at the smme time Greek. Iatin, French, science, arithmetic, geontetry algelra, history, geogrnphy, and divinity. (From an address dellvered on Srptember 29th, 1903)
J. Easterbrook, President of the lntorporated Association of Head Mnsters, Eingland.

The great danger in the modern secondary school from which the more purely classicon selools are free is that wetry to tench too many suljects at one tinte, and the boy leaves seloxil not knowing any one subject well. As time goes on and the sitm of humm knowledge has increased, new suhjects have been udded to the currienlum, modevery sulbject has its partisans who consider it more lmportant than my other subject. In fact the overloading of the time-table has been going on to an increasing degree for years. The whole system is in a stute of "cute cougesfion, aud the ouly eure is in an immediate shoplificiticu. Noreal pogress is made in any subject mintil a certain degree of mastery is obtained, but, under the present conditions, it is Imposslale for the average bey to master any subjuct. The stimnlns of enjoyment is therefore sacrificed and a boy's whole time is spent on elements. ©Fron: his Inaigural Address, Jathary 1ł, 1906).

Joseph Payne, Professor of the Science und Art of Education, College of Preceptors, Iondon, Fugland.

It appears, then, that Ascham's pupil procerds firmaly on a broad hasis of fucts, which he has made his own by mental conquest, and that this has been possible becantar the fleld of conquest has been intentionally limited. It is olvious that no method of tenching which consists in hringing in bit of this thing, a bit of that thing, transiently hefore the pupil's mind, creating idens, like dissolving views, each of which in its turn displaces its predecessor, which miakes acquisitions only to abandon them before they are incorporntenl with the organic. life of the mind, can perssibly lef a good aiethod. . . .It would be easy to show that the valuahbe ends of elucation can only be gaturd by doing a little well: that the ambition to grasp many things, ignobly euds in the loss of the lirge minjority of them : that apprehension is not conioprohension : and generally, that to the chanctoristies of ngod method of teachiug we must add this, that it aims nt securing mullwm, but not "ucifor. If the object of alncation is traning to faculty, to mental selfdirection, this principle must be constantly insisted on. l see, however, with the decpest regret. that our ellucat ional mumenes-micn of the best intentions, but of no practical experieuce-are continually violating it in their persistent attempts to extend the curriculum of elomentary insf: inction. A little bit of this knowledse, a tittle bit of that-some information on this point, and some ou that-is so " useful." They forget that lhe most umeful thing of wh is lhe
 turiay the mind on "f fece melforefs, and mak:ing them the hasis of training. (Lertures ou Eilucution, p. oxt.)

## APPENDIX II.

## The Importance of Language as an Instrument of Education.

## The U. E. National Educational Entrance Requirements: Aesoclation's Committeo on College

## While




 requirements for mhassion to collaco.

The committere reeommenals the


(In other warla, it wis ther apiniou of ther (Report, p. 'se). of such importance in any seberum of of the eommitter that hanguge storly is

 and seionce).

Wha: wo have eallod If,



 express himself in the unfomilian idiound retherting faculties. The effort to makes him attentive to thre moaning of, tratoshte form it inte his own, possible resonures of axpression, and of words, gives n bew jusight into the ment. Incielentally the memone is cultivates precision of themght mad state-
 thus liberaliziug the minil and piving supros the gute to n mew literature,
 and ot her peophes. Ho breomes fintilian with intellectnal life of other times ideals nud institutions, thair mistakes innt foilurir mannars and enstoms, their in which the untional wenins has rexpur filures, and with the artistic forms





## The U. S. National Educatlonal Assoctation's Commlttee of Flfteon on Elementa y Fiducation:

Your Cormaittere wonk sum up these consialarations by saving that laumuge



The sulbjerts which the Nitional Edecatimall Assorintion's Committee recognizel as suituhbe for digh trhook ilre the following, viz:


It shmuld tee noted alve Trigomometry Chimistry
tinctly muderstond that all seoondarl to these that the Committee say " it is
 uhich thoy dethat wise and njporitate.
 conteut themsehes with mone haniled mat unore rigid proknamer schools mast
 vey of its educatlouml value, subjective atul abjeretlie, nsually pratuces the convicilnn that it is to retnin the thes plame la the fintime. Its chiefolijective mavantage is that it slows the structure of languge, and the logical forme of sulheet, predicate anl menlillor, thus revealing the coscontinl mature of thonght itself, the most inluortant of all whierts leronase it is self-object. On the obs
 by for use as a discipline in subthe malysis, in logioaldivlsion and classitication, i' he art of grestioniug, and in the mentil acromplishment af monking exact
fluitlons, Nor is this an empty, fumbal liseripline, fore its suliject matter, :ughage, is a probluct of the rision of it people mot as individhals bit as a



 a) efluritlon, Wht lout whirh the more possessinn of imitativedexterity in picking up the semme of a strange langman will lo fomme of little promanent value. It s in the thoul bithting tlisciplite of the minel and berdy, in the tralning of the will, in the temperitug of the miat, in the sharpening of the pewers of

 of ednention lies. It is not erim, hat diveppline. But when we come to cheose
 that one instrmment wily mut be in itself hettre than theothers : but it iscertain
 or for the probluling of all the lifferemt sptituless nerderl in ditferent llase of life. In the choice of the right inst maneut or instruments for the given child, the givell selool, the given dintriot. alll the given enlling. lips ther central



 the discipline of srieloce or the discipline of matlomatios, lut they minainging

 laws of mentul growth, tho ured for init fating earli new generation into the accumblated stores uf human ollture as expressed in language and literatare of all kinds and the fart that books arre rhouner than lalmantorites, will compel us to make use of the linguistir, dispipline as our mainst ay during the earlier stages of liberal educition. . . But they inve fully alive to the fact that. for the very reason that the modorn langinges arr living. it is invombent ant the nonclassieal selenels to laty special stress on gammatieal exereises, and on the aceurate and laborious stmily of intlexioualul of syntax, wherein lies the mental gymnastic, the logical tritning, of linguistie study. (Prub/rms in Prossian Seeondary Educution fur Buys, $p$. : $1 \cdot i$, )

The entphasls in all German secondary sehools is laid on linguistic discip. line. hut every boy is Als, required to coule up to the required standurd in religions knowledge, muthouric's. history, geography, German literature, and certain hranches of nathral science. Theic anr uo schols exactly corresponding to our secondary "schomls of science." Science is tanght as an ohligatory sibject in all secondary schools. but nevel physs such an inportant part in the
 Science and Art Departument. This differene between Einflish and German schools is partly due to historicil leassons, bit partly to divergence of educational principle. The Germans have concentrited the intenser form of scientific study in their Higher Terhuical Schools, to which the boys may pass if (hut only if) they have complat ell the presmibed course at a secondary school. Edncational opinion in Germany prefers to lay stress on a wide general education during the periou of secondiry schoul life, and tha regnlations sternly forhid anything which approaches premat uws sprepialization in any one branch of study. Commercial aptitule is il hop-prolutt in their system of "modern" secondary education. The fievilan secondaly schools seemeninently successful in cultivating the powers of npt expression. These powers, it is tme, are useful in trade, especially when a young unan can use two living languages

Thewidem him own. If the arts of making thingn need brain and practisedl hant and cye, the craft of selling thiugn needels luain and praptimall cye nud ear and


 Professor Emll Hausknecht, Dirvetor of the Twelfth Redisihuie, Berlin : It certainly is the effect of our giepman system to merolle a high and

 early an nge, but a hrond gyeral basis of klowledge. ine specializing at too of linguistle nidl historyical kiowledge weileconnerted knowletge ; agreat dowl
 deveioperd or prematurely developedig at the the where heither mide bering ovep-

 P. A. Barnott, luspector of Scheols, Eugland.

As a training in the honest woighlug of evidence, the molving of a problen In translation or the interpuetation of a (irrek or latint text is of the highemt selences, that the nuparatus is chealis and wantage over the applical physieal


## Sir Joshua G. Fitch. Inspector of His Majesty's Truining Collegen,

The systematic stuly of langunge ought to lowid a high place, perhaps even stilig is in lispenveble, not omplyative equcationnt agencles. Moreover. such expression of our thonghts, but beeanse it is the the instrunent for the acelrate thinking on any sulbjeet at ail. Further, the fullowt and besteritt for into the philosopliy of langunge is not to be had four fullest and best lusight
 and most frnitfulit with a synthetic and highly intfected tangunge. The best objeet, bit those which tend to envery the learier limited to therir Immediate thought, and to whed light on enpy the learner f.יt ther into other regions of of anguage fulfils this condition in an cminent dervee lyes. And the study "ud Meflusene, p. 246 .)

It is a shallow thing to say that what the human being wants is a knuwledge of things, und not words. Wirds are things: they emulnody facts. gaining an insight then is studying much more than sonnds and letters. He is (Leefures on Terehing, p. 227.)

The study of language is the atury of humanity; the forms of language represent the forms of himan thonght; the history of lauguage is the history of our raee and its development, and great eommand over the resonrces of tions which miake up the wealth of great cemmand orer the idean and coneep-

We must rememher the (hlid. p. 228.)
had, not froll the study of the knowledge of gramume as a seience is to be and synthesis of two or more one language per: we, but frout the comparison differences and the ressenkiare languages. It is not till we linve sern the that we can get the least pereeption of the sifucture of $t$ wo distinet gimuniars, Which are aecidental or distinctive of partieutar tole het weent those prineiples fundamental and cominon to all organized langunges nlike. (Ihid. whieh are

It may be ronghly said that if vom have sase twruty (idid. p. 237.) arallable for the werions study of disepplinal suhjects, it is ing hours of a week give nearly half of these to langluage and literature, it is not inneeasonable to ( hin. p. +22.)

## The Royal Commiesioners on Middie Schoole in Ensland

The " hnmme" sulijects of instruction, af uchirh the atruly of Innguage is the beginninu, "ppenr to hace a distiartly geroter edncotional pareer than the "material." An all clvillatlon really takes lits rise ln hinman linterconrse, wo the most efficlont lintrimment of edurathin mprates to he the stioly whleh most bears on that litercomse, the stluly of lummus sperch. Nothing appears to develop and diselpline the whule watis sol luch as the ntudy whleh asslats the learner to miderstand the thomighta, to cuter luto the ferlings, to apprechate the moral judginente of others. (.Viedile sirliseols Repoct, p. 2e2.)
S. S. Laurie, I'ofensor of Eduration In tho University of Edinhurgh. "Profemsor lanifie In onr greatent living witer on education, "-The Jourmel of Educulion. Iandon.
"Among the works which hiseg given to Profesmor lantle a world-whe
 Method" - The Scheol Revire, Chioago.

It nay lee sald with n nhow of trith, that to athain thle great resultIntelleretuil and moval disilplime-the lamguage of plementary mathematles, physhes, ol biolegy would serve. It would serve. inguentloumbly bit not ao well, becanse the innguage of those stulion is putial and restricted, whereas the language of whieh weave spanking thr tuoucuge of cueryetuy iutercourae



 historlcal forinom and logicul rolations-the test of all pensithe atisciplimes of the iufellect; first, becimse it in the study of the intellect itself, but this in a conerete material which brings it withh the caparity of the immature mind of boyhonel : and, secondly, becinse of ite univarsil flarartar-beconse, that in to say, nll the proceses of inind are presented] for abalysis, aml this in every possible relathon of simplicity, complexity, and smliety. ( Lamguage aud Ríuguistir Mefhorl, p. 9.)

Enongh han berell salid to whow that, whether we regat the dincipline of intellect, the sulstance of moprality uml wisdoum, or the growth of the distinctheely npirltual life (the life in ideas and ideals). fon!gen!! as a formal or logical wtudy, an a real stidly, oud us a literary or art stuly, is. aul unat ulecays be. the sopreme suhject ii the evlacution of il hument heirig, the centre round which all other educational agencios mught io range thrinselves in due subordingtlon. ... In courlasion, when I way that language is the snpleme subject in ali educatlon. I menn the varbacilar language, with monue foreign tongue as a necessary allxiliary. (I bid. [. 17.)

What I have sald applles to Langnage in general, iucloding the vernacular language abive all. But the vernacular cannot be thoronghly known without the aid of another, and, above all. All ancirnt tongue; and for English-speaking people that tongue $\quad 11 / 1 \mathrm{~N} /$ the Lutill. (Ibid. p. 189. The italics here are Professor IAllirie's.)

My object in lhis courwe of lectuces lias hero th, demonstrute thor language menst alimys be the gocermiay suhiject of utl evlucution worthy of the mame. (p. 173.)
-Lectures on Language and Liny"istic. Method in the School. By S. S. Lanrie, Edlnburgh. James Thin, 18 m . Secoul edition, 1803. Pp. 197. ts.

All language teachers should possess a copy of Lnurip's Langunge and Linguisic Method which is probalily the ablest exposition in existence of the importance of language stondies. The larger part of the volnme is devoted to the consideration of the teaching of English; lectures $X$ and $X I$ are on methods of teaching Iatin and Frouch: lecture IX gives reasons for teaching Latin : and in a supplementary chnpter Professol Laurje discusses the comparative merits of language and science studies in secondary schools.









 is comsay










## APPENDIX III.

## 

Tur. U. 8. Natmal Einceational Amm'lation's Convitrer. ur Trin en Srcondabr

One of the mont intereating opiniona expressed by the Confc.ence $\| \mathrm{i}$. e. the Conforence of experts on the teaching of Finglinh] is titat the Aeat cersils in the teaching of

 enperially swited to this ewd. (Keport, p. 21).

Althougin the Cominitlee thonght it expedient tu include amoug the four programines, one whlch included neithor Latin nor Greek, and oue which Included oniv ons furaign language (whiuh might be either ancient or mumleru), they dewired to nthrm expllcitly their unanimour oplaion that, uuder eximing conditions in the United Statie as $t$, the training of teachers and the provisiou of neceseary neman of luatruction, the two programmes called reapectlvely "Modern Languages" and "Mingliah" muat in pructloe be Aistinctly Inferior to the other two. (Report, p. 48.)
[In other Wirds - The Commillee denirrd to affrm rixplipilly their u1, the prognammen in which Letin didl not "ppenr ill all, or in which it ue optional authect, icere divinetly inferior to thone proygrammen in whirh Lan obligutory ambjrel.

- opinion that ippented an an appeared an un

One of the members of the Commitiee afterwarin atated. Through the coiumns of "The School Review," that partirnher corr had heen taken in the fruminy of the limo progrommen,
 the Committere that hoth for pmpila gning to rolleyr aml for thowe whow otlucation lerminntes with the high wereat, one of there llo o proyraminen in the bewt pousible "]
 TION.
A majority of your Committee are of the opinion that formal Finglish grammar should b; dizcuntinueil in the nighth year [i. e. the eigith year of the cour se and the fourteouth year of the pupil], and tho atudy of aonue foreign language. preferably that of Latio, anbatitutel. The educational effect oun an English-speaking pupil of taking up a language which, like latin. ores intlectious instend of prepositions, and which further differs from English by the order in which ite worils are arranged in the sellences, is quite marked, and a yonr of Latin placex a plupil by " wille incere, ouf of the ranure of the pupil who hine cominuent Englinh graminar, urithowt cukin!y up latin. But the effect of tise year's atudy of Latin in. crenses the y outh's power of apperception in very' miany directions liy reason of the fact that m1 much of the Engitin vocabinlary nsed in technical vocahnlarien, like those of geography, gia nmar, history, and literatore, is from a Latin source, and beaides there are so many traces in the form and suhstance of human learniug of the hondreds of yeara when Latin was the only tingue in winich ubservation and reflection could be expressel. (Report, p. 73.)

In Latin, for instance, the pupil leans in his first week's stuily the to him strange phenomenon of a hanguage tinat performs hy inflections what his own language performs by the use of prepositiuns and auxilinries. lie is still more surprised to find that the order of words in a sentence is altogether different in Roman usage from that to which he in accustomed. He further begins to recognize ia the Latin words many roots or ateme which are employed to denote inninediate sensuous objects, while they have been adopted Into hie Engliah tongue to aignify fine shades of diatinction in thought or feeling. By theee threo things his powere of observation in matters of language are armod. as it were, with new facuities, Johhing thut he hua hitherto learned in! rrammar is so radient and fur-reaching as
 temee indloates a differest order of mantal arrangoment in the procene of apprationaion and expromion of thought. This arrangament is renderel poosihle hy declensions. This amounta to ettwehing propositions to the ands of the worls, whioh they thus convort into adjeetival of edrerblal modifiere t wherrus the apprate preporations of the Pinglish muat indicate hy thoir pooition in the sontone their granmatieal relatlon. Theme obwervationa, and the wein


 p. 88.$)$

## 1). R. Feamo:, /mapector of Schoola, Ringland.

Kinglieh grammar is unfortunately taught in our alementary achools hy teachera who for the moit part are unacqualuted with the grammar of any other language. The ronme. apence of this is that they have no power of atemlying their thoughte and teeting their con. clucions in Kaglieh grammar, by onmparieon of thatn with their thonghts annl onnclunions In the gramniar of any othar language living or deal. The Inspector, oven if he does nut know anything of old Bingliah or lierman, la asved fron: .nany a mistake, into which the teacher falla, hy his knowledge of latin; and it in imponailde to omerrate ihe importance of
 graminar la not of inuch value, urili it can be treated comparativaly. il wouldil not be worth while, prohalify, to reluire our eiementary sehool teachers to learn nll Prigltah of German for the make of tewhing Einglish grammar. Hut it is well worth while to make them learn anmething of Latin ; liecause sume knowleclye of that language will not onfy help them in giving granmar lenems, lut will oularge and enli, bien their understanding upon the whole range of aubjectn. ferm greiting up to histoty, with which an lean ners or teachera they bave to deal. (Nehool Implimion, p. 46. The itaice ure Fearon'o.)

Wititan Ib.Witr Hyım, I'revielent of Anurloin Collese. Brunawick, Me.
Some atulies are fundamental to a libepal edurations. To omit them is to Imild upun the sand. To puatpone ithent is 10 build from the rout down.
lation is fundamental to the atuily if langrage, literatire, faw, hiatory, and all that enncerne the exprestion man lias mule of himself in art, letterm, pelitics, ani inatitutione. unintelligible. By a dead fift of arbitrary memory halif wifma of liberal stody hlind and unintelligible. By a deall fift of arbitrary memory ha wifl have to learn riwhe of worils and forme of apoech which with the nild of a little latin would become rationally inteiligiole Ho will have to dig out of dicthonarien the deal bones of raforences and alfucions wheh a little clasnical luarring womlld have ciothed with life.

Greeh in a highly desiratlo olement of a liberai aducatlon; and indiapensalule for certain
 the urime.
latin, mathematics, and Einglielt atould he abolute ropmirements for every liberal course of athily. Thene studies are fundamental to the enjoyment and profit of all future atudies: and it in the duty of the colieges to recognise the fundamental character of theae atmilion in their requirementa for admission. In view of the extren.e ditticulty in making Finglisha aerious sturly; and in recognitiou of the fact that the bent tralning in Pinglish la the intelligent study of liatin, the colloyme may wisely continne to make latin a larger element in the preparatury wirk, and Einglish a amailer element than the other nubjecta. (From an addruas on Eilucational'V'aluren, delivered at Buston, (Petoher 12, 189.)


#### Abstract

W. T. Harkts, C'nifol Nufta Commixaioner of Eflucation, Washington, D.C

The modern xymem of Ejlurulion in Einrope amel A nerira parra the sturly of Latin in all ecrontary and hegher clucation an"firxt enential wide ly wite with wathematica in the chool nhuliea. Thie secures for youth from three to seven yearn' daily occu pation with the workinge of the Latin mindi. The boy or the giri gradually becomes permeated with the motives of that serinus-usinded people. The apecial significnnce of thase worde that ex preas the ideala of Roman characier (and the ideala of all character), worla which we have preserved In oy tranalation into English-gravity, soherness, probity, honenty, self-reat raint, austerity, considerateness, morienty, patrintieni-impressea his mind deeply as a result of long-continued atady of Ron:all literature and history. (Eiditor's Pieface to Davidson's Liducation of the (irreck People.)


Latho and Greek are nct dead languages. Nor were they over eventually more uaful in a literal educution than now. A youth equippod with Latin and Greek has powers of learniug and axderstanding whatever relates to the social, political, and logal
forme and urages of hie prople, that gives him a diatinet alvantage over the gouth educated ooly in the "moderue."

I Aate long aimee abnucloned my obiretions to the inadi. siomal edmedion of latin and llreet in rellegen ant academira, (Bilwewtional Reviow, January, 109.)
N. H. Latintk, Prafrnor of Ailmeation, Univervity of Hidinbargh, Meotland.

Latin an a formol and ymammatical awfly Ans peculine ntrourapen, anl mor, effectually
 dincipline, 148, ineellectus il porer. (Lanyway and lionguiatir Methonl, p. 127.)
 formand to a prolonged currifulum My experience lentu me to diment from thin emphatically In three years Latin, well-tanght, and not bogun prematuroly, can give an amount of genuine slimeipline and melid inatruction in wurds and syntax forms which is invaluahle. It pincen a luy, as it wore, by one bound on higher intellectual plase than his foliowe. (/bive. p. 135.)

The mindy of Jatin hy giring comprehersion of mind amb poreer of ineflect, in the hew of all freporations for eciph ihe wreatifir min ; and furthor, it give grester acutenems of discrinination -a most important attribute of the highear cientitio minds. In short, we may say that the formal stuily of ianguage, and, slove all, of latin, le the nont admirable of all exervises in the amelysia and syinthosin which constitute the whole method of wionus. - ing Thowe elucationalist, who are not more the rrista, feel the necessity of lindiag an inetruncent which doen not over wrain hoya, and which can work fairly well in the hande of no very cuaning workmen. Where natural science is that inatrumeat, the method which loote so fell in theory must iogenerate in metnal practice into the most ordinary and vulger cram. (p, ive.)

Srience in if can ou - be langhe to boy helefell lirelve amb nixtern yiara of nye in a


To exclwde Latin from the obligho..ory curricu/mn, would be an edncational calnmity (p. 187.)

## Ahthier T. Hadley, Prenielent of Yale Uuiverviey, Now Ifaven, Conn.

To a man who hae no practical experience with eriucatioual eysteme the ide of otudying the thinge which are going to be uneful in so attractive and no plaunible thit he rarely nons $1 t$ ut : $\boldsymbol{C}^{-1}$ ving weaknesa, Bo great is the importance of syatematio work, an distinct from dilettantimm, that thome who a fow years agn were number ad among the opponente of traditional idees now regard a considerable knowletge of Latin an an olemeat in liberal edncation at the present day.

Whaterer be the main cau*, if wemn to be true that the yonmy men orho have houl a clavnient training, whether in 1 merien, in Emelund, in Frunce or in tiermany, ore able to take np
 han leen from the outhel confinetl to the morelliminetly molern nulyects. (" Moulern Eulucation" in Cormopoliton, Nov., 1899.)

The merit of different groupe of courses in the anme echool ian often been very different. The clavical conrae has generally tern the heat, the Latin wcientific the nest tent, while the Einglinh courne and the commercial courm have bern lintinetly inferior. (" Tendencies of Secomdary Lilucation" in Eiducational Revieu, 1hoc. 1897.)

## Edward Thaivo, Head Maner of Uppingham School, Jingland.

No Enefich sch rolmater of the prenat day has made so bowerful an impresion on edrecalonal thou sh oustide of Eingland an Mr. Thring-- Bhucational Keriorr, So, John, N. B.

It ecemsat frut sight very strange that the ciassics should maintain their ground cen. tury after century in spite of progress andi ecieuce as the main trainiog of the young. A subject in mate the principst study of the mighty ten yeare which only one or two of thowe who work at it wiil ever visibly thake use of in after life. Nay more, very many will never Inot into a classical author again after loaving the University.

The two greas powess of the worill, religion and knowlodge, seem alike to forbid this aupremacy, and yot They mointain their grount, and with ever do no n+lonj at a nvion cares for true Educadion. (Education and Sehool, p. 47.)
[Mr. Thring devotes the whole of thin chapter (pp. 47.101), to the giving of reasons justifying the preeminence accorded to the Clastics in the educution of the youth of Eng. laut, and in concluding he says]:-

Volumes might he written un any and all of the points raised in thim ohapter, to elucidato and prove them, but enough has been done. . . at leant to show that no great nation can let the neudy of Clanics fall into diarrpute : - and remain a great nation lon!s ; enorgh to ahow that if in no supersition which makes it a part of a gentleman's cduention in England to hnow them. (p. 1c0.)

Foster Watson, Profrsaor of Eihucition, University College, Aberyatwith, Wales.
Humanistic studiea have not been dethroned. They cannot for long aither abdicate or be put aside. (In School World, January, 1906.)

Sir Willias Hegins, Aatronomer, Prexident of the Royal Society of Great Britain, the greatest of all Scientihic Societien.)
In the scheme of a liberal education, literature and languages, which include the habit of clear think:ng in suitable words, should have a large place. It muat, I think, be conoeded that the langnages of anciell Greece antl Rome, which are highly developed for the convery. ance of delicate shades of thought, stll aland unsuryawed an means of training in thinking in association uth correct expression, while, at the name time, they feed the mind with great ideas and the heroic defls of the past. (Presidential Addreme before the Royal Socioty, Nuvember 30, 1805.$)$

Sir Arthicr Rucker, l'rofenor of Phyaicn, Royal College of Science, London.
For myself, I think that a boy looking forward to a scientific career will he wise not to neglect Latin. (Addreas at St. Mary's Hospital School, London, Uctober 3, 1902)

## The Mabsachesetts Institite of Technology, Boaton, Maes.

The Massachuselts Institute of Technology stands at the head of the whole system of technical education io the United states.-Him. Joseph Choate, Linted States ambassador to Greal Bittain. Address at Oatord, $A$ usust 1.1923.

The Masachusells Insuinute of Technology easily takes firsu rank among science actaools - A. McKay, Bupervisor or Balifax Schools, Report for 1891 .

Satisfactory evidence should be presented that the applicant (for admiasion) has acquired the elements of Latin granmar and that he has read four books of Cuaser or an equivalent.

The study of Latin is atrongly rpcommended to permons who purpave to enter the Inatitute, since in addtion to itn disciplinary value it gives a better underatanding of the variona terms used in science, and greatly facilitaten the acquisition of the Modern Languagea. (From page 106 of their latent Catalogue, issued Decunber, 1905.)

Tue Central. Higil Scheol of Phifaineiphia, Pennaylvania.
Xowhere did i see more intelligent and accurate workers than in the Central Bchool.-A. McKay, Supervivor of Halilax School.

The atudy of Latin is conpulsory during Freshman and Sophomore years, and elective thareafter. (Central Hitih Schnol Cataloyme, p. 33.)

## H. H. Almont, Head Maxter of Lorelto Schooi, Scotlaud.

English, Latin, and Mathematics have a diatinct precedence over all other sulijects taught in this school.

The whole subject "f "Motern Sifps" is ous of grest difficulty and importance. In nrder to approach it, the fact must be borne int mind that they hare not hitherto nucceeded in lurning ouf as yood n type of boys as "Claxxicul Sidese" To whitever causes this may be due, the classical hoys prove superior to the Modern in subjects in which the two sidea are taught together, to a much greater extent than woull result from the previous achool poitions of the two sets of hoys ; and the tone of Molern Sides is apt to be in every respect less satisfactory. it in the Head Master'* experituct thut if one of trro ergual boyn of fifteen, hoth in the Middle School, trere to remuin in the Clasnical Side for a yrar, and the other to join the Modern at once, the former irould, in a few montha, beat the lutter in Modern anhjoctn. (I'ublic School* Year Book.)

## Kev. J. M. Wilson, Head Mo r of Clifion School, England.

[At Canbridge Univenity Mr. Wilson was the mont distingulshed mathematician of his time. After grarluating an Senlor Wrangler he apent twenty years leaching ssience and mathomatice at Rughy School when he wam appointed Head Master of Clifton. Aftor he harl been in charge of the latter school for eleven years, a visitor to the school noticing that the boya on the Modorn Side (that is the aide containing those not going up to the Unlver sitiea), were required to spend a very considerahle amonnt of time in the study of Latin, asked hint why he attached so much importance to the study of Latin in the case of these boys. Mr. Wilson's answer was as follows] :-

As to your question about Latin, I am afiaid I cannot give my reasons very briefly, but these are the chief. First of all, experience shows us here and the observation in abundantly confirmod elsewhere, that boy* thollurn Latin acquire a fuculty for leay ning ofher whbjects. Some years ago Latin was very imperfectly taught on our Morern Side; more time was given to modern enbjecta. But the result was that the Molern Side was almost invariahly beaten by the Clasnical Side - even in their own subjects. For instance, a clawsical boy began German in the fift form at 16 and before he was 18 he was far better than a modera boy who began at 14, and gave quite as long a time to it every week. Again modern boys gave twice the time to science, and considerahly more to mathomatice and were almont invariably beaten hy classical boys. And in English, in which the modern boys aot far more teaching, they could not compete with the classical boya for a moment. (Education, April, 189(1.)

The University of Brikis (the world's greatest University, whose studente number over 13,000 )
[The following was the unanimous verdict of all the Professors of the Philosophical or Arta Faculty on the comparative merits of the classical and the non-clasgical schools after a carefnl lent extending over a period of le"l yearn during the whule of which each Professor carofully noted and compared the work dona in his classen by the students ooming frrm the different kinds of schoole. Dr. A. W. Hofniann, Profesmor of Chemistry and Rector of the Univernity, thus summed np the reault in his rectorial sddrese):-

The cotal reault of this great investigation cannot be a moment in doubt, and may be briefly summed up as follows:-That the Real Sciool of the first rank, whatover generous acknowledgenent may be due to what it has actually accompiished, is nevertheless incapmble of furnishing a preparation foracademic studies equal to that offered by the Gymansium : that the Real Sichoil lacke a central point about wbich all other branches may groap themselves, while the Gymnasium possenses such a point in the classical languages; that all efforts to find a sumatitute for the clasnical langunyes. whether in mathematice, in the modern languages, or in the nutiral sciences, have lwen hitherto unauccensfll: that afier long and vain march, me mual alvayn come lizck, finally to the reant of centurits of experience, that the surest instrument that can be used intraining the mind of youth is given in the stidy of the Innguages, the literature, and the morkx of art of clanaical antiquiry. Accurding to the unanimous judgment of experienced teachers in the departmente of mathematics and the natural sciences, graduates of the Real Schools are almost without exception overtaken in the later semeaters by students from the Gymuasium, however much they may excel thein in the same branches in the first semester. (From Dr. J. Conrad's German Unirerxitifs for the Last Fif!! Year*, p. 329.)

## The Phofessors of the Tecinicai. Higil School at Karlsblie, Gerinany.

In a remarkable memorial recently issued by the Profacsors of the Technical High Schonl at Karlaruhe, the mastematic aturly of Lutin, as a achool diaripline, in declared to be of the higheal calue for: fut ure emgineers, botawists, zoologix/a, mineraloginds, chemisha and physicinct. The memorialists indeed advocate the study both of Greek and Latin in the schools, in the case of boys intending to follow any of the above scientific purnuits, but of the two ancient languages they emphasize Lutin as the more indispensable. (From Dr. Sadler's Pruswirn I'rohilema, p. 218.)

## F. B. Loonis, Profesaor of Bioloyy, Amherst College, Ainherst, Mass.

It has lieen the uriter's experimer in trachingt biology (montly soolong) that the clawnical mudenta do a betler grade of work ill the subject than do the eriewtific. All his classes arn composed of a mixture of hoth aorts, and during the firat three years the scientific atudents vere given a half, year of =oology lnfore the clansicnls came in with them, the latter even wish this handirnp loing an good or hetter mork. The chief difference is in the character of the work presented, the tendency being for the chaseicals to turn out more uccurute and thormugh retelli.

## APPENDIX 111.

It is the writer's belief that this ls due to the better training obtalned by the atndy of a language like Greek [or Latin] than is ponsible from modern language. There are two main ressons why the Greek [or Latin] is the better, the first iuherent in the language, due are taught, the French or German exact usage : the second in the manner in which the two sized.

解 entrate, also the tendency to be enaily satisfied. acientific students is their inability to con. The mental exerciso in the eavily satisfied.
as swinming is suporior to wulking as a phyaical is much superior to that in the modern In The Iudependent, August 31, 1905.) physical © .ercise. ("Creti for Scieutific Students."
F. E. Boltos, Brofesaor of E'llication, Iowa State University, Ames, Iowa, ("who has made a special study of educational principles and whose opinion therefore ahould be of great value. -A. WcKry, Supervisor of Halifax Schools, in his report for 1905.)

The Course might mell inc/ude notue Latiut for all, powably a year and more for those who specialize. It certainly ought to include some modern language .... All should be
given introduetory courses in algelbra and should be ample. (Quoted by Supervisor Mckay in his, but two years in the Iligh School Su Hen His (100.)
Sir Henhy Hinert, Chairman of Educatiol Commiftee. County Council of Lancashire, (" the greatest hive of industry in the world."-Moweley lipports.)

Latill ouyhe to be a compulaory aubject in every accondary achool. (From an addresm on Secondary Education delivered at Liverpool in October, 1804.)

## A. McKity, Supemisor of Halifax School, Halifax, N. S.

"It ie no disparagement to any other section in the province to acknowledse
Afactiay Buperintenderties ol the metropolis as Intelligent students of the dience of preerinence of the pres , in his report for 2896 . the so.called practical and many of you are, one of those whose sympathies were drawn to eientific studies. But $/ m: n t$ adinit that it is much more difficull
An innovation in the junior from them ar from the clansical studies. the derivation of words, is taur section (in the Academy) is that Latin with epecial drill in school education at this point, he has received of the class. If a pupil finishes his knowledge of its relations to English, and nnderstan year's iraining in Latin, and has a fair of hundreds of English worda-no mall and primary meaning adranced to the senior section ho has had an oxcelleut his future reading or study. If he is of Latin, o. for the stndy of French, in which he can now man laid for the continuation year, at otherwise he could in two yours. (Report for 1889 .) make as much progress in one

When you go into a school and find that, as a cisee, the exclusively to your practical atudies do not ane the devote themelves physically as those who study recommend changes of which you do not ireek, jou stop to think, and you heoitate to

It is a surprixing fact that oul of sio cow the effect the city, 287 deliterately choave Latin, althoudemic pupils from the most intelligent homew in gire as a reason that the study of Latin "does them more good," by ichich ther mean they gites them better habits of study and strengthens their intellects," by ichich they mean that is are offered for it. (Report for 1894)

Friedrich Paulsen, Professor of Philorophy and Pedagoyy, University of Berlin, Germany. inteadeni of Edrich Paulsen, the bass known educational authorlty in Germany."-Dr. A H. MacKay, Soperdenl of Educalion,
A school without Latin cannot be the culture-school of the present be that, in one hundred, or two hundred, or five hundred years, scenool not oniy It may Greek but aleo withont Latin will sutfice in preparaion for shool not only withont period. . But this must he anid: The sehool of the future learned studien of that present. The knowledge of the Latin lnumuage is of the future is not the sethool of the aturies. . . Just as Rिome is the Elernal City to day indinpensable for mont higher


Sir Joshua G. Fitcn, Inapector of Hia Majeaty's Training Collegen, England.
"A world reaowned educationisL"-Supurvizar A. McKiny, in his Report for ilo3.

For those scholare who, when at the Univeraities are likely to select mathematich, atural science, or modern subject, as their special subjects, and for the larger numbey Who are never likely to proceed to the Uuiversity, but who will enter professiocial or other active life at 18 or 17 , the attempt to teach veraification and the nicoties of acholarahip, or a real value a real value . in (1) because in it you find the best practical illustration of the science effective instrument for examining ture of language generally ; (2) because it furaishen an English language, and (3) becanse it helpe tory, form stion, affinities and developmeat of the in our national literature, and to mate into explain much that would otherwise be obsenre atande to that of Greece and Rome.

These objects are attainable wit encroachirg on the domaln of ot are worth attaining, it becomes evident that. And when it is once underatood that they in thase for boys. The tacit assumption in they are just as important in wehoole for girls as masculine and French a feminine study, is our school plans that sonehow Latin was a taught as essential parts of every schood courve which infusible. Both langunges ought to be and unless it is likely to be prolonged beyond that age, more than the to the age of $11 \%$, ught not to be attempted. (Lecturen on Teuching, pp. 236, 237.) these two languages

## The Board of Enucation, Eigland.

For hoth of the types of School commonly knoren "as "clavaical" and "modern," Latil and French irill be esvential elrments in the ndeansed curriculum. The Bo . onsider that Latin is the necesaary basis of a thorough linguistic and literary training, either in ancient or in modern languages ; and that among molern languages the claims of French are preand access to the grammatical training, practice in the accurate ixpression of thonght and access to the larger world of international relations and public af 3. In special a modern type the third language takeu will ordinarily a third lang ie; in those of Secomlary School, 1905. ;

(The Brackete in the above table indicate that the time for subjects enclosed may be rellistrihuted if denired.)
A. Besides the above, Irilling and dirmnastice are ohligatory for 8 hours a week in every class, singing for 2 hours in VI. sud V. Bnys with talent for singing are required th take part in chorus singing the oughout their whole course. The hours devoted to singing and gymast cs are aot looked upon as actual working hours and so are not includuging the ahove table.
B. Optinal stndies are 2 hnurs Drawing in the 4 highest classes; 2 hours Englinh, and 2 hours llebrew in the :. ighest classes.

Fur those whose writing is posir, apecial instruction in that line is provided in IV. aud III. In the 3 highent classes, Enylish may be substituted for French, and optional French take the place of the optional Englinh.

In classes III B. III A, and II B, the 6 houra of Greek may be replaced by 3 hours of English, 2 hours of French, and 1 hour uf Mathematics in the first two clusses (i.e., in III B. and III A.) and by 3 hours of English, I hour of French and 2 hours of Mathematics and Fatural Science in 11 B .

## SECONDARY EDUCATION IN GERMANY (Programmi of 1901).

> (2.)-Time Table of Realaymmarta (Modern Schools with Latin).


Optional: Mochanical Drawing in the 5 ligheat classes for 2 houra a week.
For Gymanatics, Singing, Writing, see under Time Table of Ciymuasia.

## SELONDARY EDUCATION IN GERMANY (Programme of 1901.)

(3.)-Time Tabie of Oberrealecullen (Modern Schoole without Latin).


Optional : Mechanical Drawing in the 5 highest clages for 2 houra a weok.
For Gymnastice, Singing, Writing, see under Time Table of Gymnasia.

## SECONDARY EDUCATION IN GERMANY.

Time.Table of "Reyorm School.," at Prankioht.

|  | $\begin{gathered} \text { Common } \\ \text { Preparatory } \\ \text { Conte. } \end{gathered}$ |  |  | Alternate Courses. |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Gymnasium. |  |  |  |  |  | Realgymnasium. |  |  |  |  |  |  |
| clacн. <br> Age. | $\left\|\frac{V 1}{9}\right\|$ |  | $\begin{gathered} \mathrm{IV} . \\ -11 \end{gathered}$ | $\frac{1 I I}{12}$ | $\frac{\text { III A }}{13}$ | $\frac{\text { II }}{14}$ | $\frac{11}{} \mathrm{~A}$ | $\|$I B <br> 16 |  | $\frac{1 I I B}{12}$ | $\frac{111}{13}$ | $\left\|\frac{118}{14}\right\|$ |  | A. | $\left\lvert\, \frac{1}{18}\right.$ | $1 \frac{14}{1 \%}$ |
| Religion.... |  |  |  | 2 | 9 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 1 |
| (ierman . | 5 | 4 | 4 | 3 | 3 | 8 | 3 | 3 | 3 | 3 | 3 | 3 |  | 3 | 3 | 3 |
| Latin . |  |  |  | 10 | 10 | 8 | 8 | 8 | 7 | 8 | 8 | 6 |  | 6 | 3 | 5 |
| Greek |  |  |  |  |  | 8 | 8 | 8 | 8 |  |  |  |  |  |  |  |
| French |  | 6 |  | 3 | 2 | 2 |  | 2 | 2 | 4 | 4 | 3 |  | 3 | 3 | 3 |
| English |  |  |  |  |  |  |  |  |  |  |  | 6 |  | 4 | 4 | 4 |
| Hist, \& Geog. |  | 2 |  | 8 | 4 | 2 | 2 | 2 | 3 | 4 | 4 | 3 |  | 3 | 3 | 8 |
| Mathematics. |  | 5 | 5 | 4 | 4 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 5 |  | 5 | 5 |
| Nat. Sciencea |  | 2 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 4 |  | 5 | 5 |
| Writiug .... |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Drawing ..... |  | 2 |  |  |  |  |  |  |  | 2 | 2 | 2 |  |  | 2 | 2 |
| Totals...... |  | 32 | 28 | 29 | 29 | 29 | 29 | 30 | 30 | 30 | 30 | 32 | 38 |  |  | 32 |

Gymnastics, Singing, Writing as under Time Table of Gymmanis.

## SECONDARY EDUCA'TION IN ENGLAND.

(A 6 years' course following a 6 years' elementary courac.)

TIME TABJE: OF ETON COLLEGE.
[The great Fagliah achool which has contributed eleven of the twenty-one l'rime Ministers who during the last hundred yeara have controlled the destiniea of the Britlal Eimpire, and which clainsed es former pupils more than half oi the memtera of the late Britiah government.
"Confessedly the first of public schools." (Cyclopedie of Educatlon.) ]

| Clans. | F. | 12. | D. | C. | 8. | A. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Approximate Age. | 12 | 13 | 14 | 15 | 16 | 17 |
| rivinity......... | 1 | 1 | 1 | 1 | 1 | 1 |
| Latin | ( | 7 | 7 | 6 | 7 | 7 |
| (ireek | 3 | 4 | 5 | 7 | 7 | 7 |
| French | 4 | 4 | 4 |  |  |  |
| Finglish. | 2 | 1 | 3 | 3 | 3 | 3 |
| Mathematics | 5 | 4 | 4 | 5 |  |  |
| Science . . | 4 | 4 |  |  |  |  |
| Fixtra Studies. |  |  |  | 2 | 4 | 4 |
|  | 25 | 25 | 24 | 24 | 22 | 22 |

The Scipuce of $\mathfrak{F}$ and F includen Physical Geography.
The Mathematics of F inclules 1 hour of Drawing.
In C, (ierman may be substituted for fireek; and in B and A German alone, or both German and French may be substituted for Greek.
[Note. -The above is the time-table as revieed and modified during the present year 1906. ]

## SECONDARY EDUCATION IN THE UNITED STATES.

## A 4 yearo' courab following an $\$$ yearr' elomentary course such at we have in Nova Scotia.)

## JESVER HIGH SCHOOI, CURRICULUM.

Giiven in Reports of the Moneley Eilncational Commiasion to the United States of America (Oct.-Iec. 1003), as "fairly representative of many other achools visited.")

## CLASSICAL COURSE.



Music, aml Caliathenics or Military Drill 3 hours throughout the course.
GENERAL, COURSE.


Music, and Culisthenice or Military IDrill 3 hours throughout the course.
Those who contemplate an advanced acientific conrse nay substitute French for History and English or for Science in the third and fourth years. Others by permiesion of the Home and the Principal, may subatitute French or Spanish for Mathematios, and in the third year English Literature frr Latin and German, and in the fourth year Einglish Ifistory for Latin or German.

## SECONDARY EDUCATION IN THE UNITED STATES.

## St. Lisuis Higil School.

GENERAL COURSF.


CLASSICAL COURSE.


## SECONDARY EDUCATION IN TEE UNITED STATES.

## St. Louls High School.

## SCIENTIFIC COURSF:



COMMERCIAL CUURSF:


In the 1st and 2nd years Drawing, and in the 3rd and th years French, may be substituted for Latin or German.

## SECONDARY EDUCATION IN THE UNITED STATES.

## CURRICULUM OF TEE HOI'KINS GRAMMAR SCIIGOL, NEW I:AVEN, CONN.

(Quoted in the latast Report of the U. S. Comminaioner of Elucalion, reprementative of the coursem ul many strong sohools is the United Btates. I

## CLassical coursf.



SCIENTIFIC COURSK:


## SECONDARY EDUCATION IN THE UNITED STATES.

HIOII SCELOOL COURYES BHCOMAENDED BY THE CONMITTYL OF TEN.

| Yoar. | Mopemn lambuaber Coeme. Two foreign laguages (both modern.) | Enhlasi Cothuz <br> foreigulanguage (ancient or modern.) |
| :---: | :---: | :---: |
| 1. |  |  |
| 11. |  |  |
| 11. |  |  |
| IV. |  | Latin, or (icrman, or French. .... <br> Englinh $\left\{\begin{array}{l}\text { As in Clannical } \\ \text { Additional } \\ 2\end{array}\right\} \ldots . .4$ <br> Chemintry . . . . .................... 3 <br> Trigonomerry anl Higher Algobra 3 History. .. <br> Geology or physiography (half) year). <br> Anatomy, Physiology and Hy. giene (half year) |

Norte.-" Althugh the Committee thought it expedient to include among the four programmen, one which included neither Latin nor Greek, and one which included only one foreign language (which might be either ancient or modern). they Icsired to aflirm explicitly their unanimons opinion that under exieting conditions in the United States as to the training of teachers and the provision of secessary means of instruction, the two progrs nine called respectively 'Modern Languages' and 'English,' muat in practice be ' 'thactly inferior to the other two." (From page 48 of their Report.)

## SECONDAKY EDUCATION IN THE UNITED STATES.

HIGH N(HOOL COURSES RECOMMENDED BY THE COMMITTEE OF TEN.

| Ykar. | Clasmical. Corref. <br> Three foreign languages (one modern.) | Latin-Scientimh Conreg. <br> Two foreign languagen (one modern). |
| :---: | :---: | :---: |
| 1. | Latiu ................... ......... $\quad$ : | Latin ........................ 5 |
|  | Kinglish ........... ... ...... . 4 | Finglivi . . ........... . .... ${ }^{4}$ |
|  | Algelira. ............ . . . . . ... ${ }_{\text {4 }}$ | Algelora. ........... ..... .... ${ }^{4}$ |
|  | Physucal (ieography .............. . ${ }^{\text {Preme }}$ | 1'hysic:il liengraphy ............. ${ }^{4}$ |
|  |  | O |
| 11. | Latin .......................... . 5 | latin ..... ........ . . .... 5 |
|  | Euglish .... ......... ........ 2 | English ...................... ${ }^{\text {a }}$ |
|  | -German [ot French]............... 4 | German [or French] .......... . 4 |
|  | Geometry ..................... ${ }^{3}$ | Geometry $\quad$.................... ${ }_{3}$ |
|  | Physit\% ..... ................... 3 | Physics ............... . . . . . 3 |
|  | History ......... ........ .... 3 | Botany or Zoology . . . . . . . . . . . . 3 |
|  | 20 | 20 |
| 111. | Latin .... ...................... 4 | L.atin ...... . ....... ..... 4 |
|  | -(ireek .... ..................... . ${ }^{\text {\% }}$ | Vinglish..... . .............. 3 |
|  | English ....................... 3 | German [or トrench]............. 4 |
|  | (iernatr [or Fremb] ............ 4 | Mathmatics $\left\{\begin{array}{l}\text { Algehra } \\ \text { Orennetry } \\ \text { 号 }\end{array}\right\} \ldots . .4$ |
|  | Mathematios $\left\{\begin{array}{l}\text { Algebra } \\ \text { lieonctry } \\ \text { O }\end{array}\right\} \ldots .4$ | Astronomy (half year and Meteo. rology (half year)...... ....... |
|  |  | History .................. ..... ${ }^{\text {a }}$ |
|  | 20 | 20 |
| IV. | Latın ........ .................. 4 | 1,atin |
|  | Greek ... ..................... 5 | Fuglish $\left\{\right.$ as in Cla. cal $\frac{2}{2}$ \} |
|  | Euglish ........................ 2 | Faggish \{additional 2 \} |
|  | German [or French].............. 3 | German [or French] . ........... ${ }^{3}$ |
|  | Chemistry ...................... 3 | Chemistry................... 3 |
|  | $\left.\begin{array}{l}\text { Trigonometry and IIgher Agebra } \\ \text { or } \\ \text { History } . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ~\end{array}\right\}$ |  |
|  |  |  |
|  |  | $\left.\begin{array}{c} \text { Anatomy, Phy aiology and Hy. } \\ \text { giene (half year) } \end{array}\right\}$ |

- In any school in which Greek can be better taught than a motern language, or in which local public , pinion or the history of the achool makes it desirable to tewch Greek in an ample way, (ireek may be substitnted for German or French in the second year of the Classical programme.
N. B.-" It was the beat judgment of the Committeo that bath for papils going to colteze and for those whose edncation termiates with the tirh school, one of these two programes (the 'Ctasical' and the 'Latlm-Sci ditc') is ihe bent possible."



[^0]:    It was thonght that beiter progresw conlal be iniale in Geonletry by past-

[^1]:    
     Germany, Eughanl, nud the loited States, do nut huve so keen an appreciation of the importancי of luwkiecping as a ligh school sinbject, for it nowhere
     conmittres, thr "(bmmittoe of Ton' nind the "(ommitter on College Entranee Requirenonts." hure derideel that it is a proper subject to be exchaded from the high schmol comsin : ind the Eupliah Bury of Edurontion in a
     us in suftuble suhject for secondialy achanls. "

