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# The Canada School Journal. 

Vor. VIII.
TORONTO, FEBRUARY, 1883.
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## The Cramada School souratal

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Tho Publishers frequently recelve letters from thoir riends complaining of tho non-recelpt of the JOURNAL. In explanation they would state, as subscriptions are necessarily payable in advance, the malling clerks heve instructions to discontinue the paper when a subscription expires. The clerks are, of course, unable to make any distinction in a lisc containing names from all parts of the United States and Canada.

## 'I'HE BIBLA' IN SCHOOLS.

We publish as a closing contribution to the discussion of this topic the following letter from the Rev. John laiag of Bundas:-

Sir,-Accept of thanks for the briof comment on my letter to the Mail of Docembor 13, which I find in the January number of the Jourial. Perhaps you will allow your readers who may not see the Mail to peruse the following statements in regard to your article. You have, I think, succeeded in.clearly stating tho points at issue :-

1. You say, "it is quite clear that what the (ueputation) wanted was to have the Bible placed in the hands of the pupils as an ordinary cliss-book, and to have the teachers required by lav to explain and illustrate its text as they would that of any othor taxttook." I roply: Wo wish the Bible used as a class-book; we do not wish teachers to give any uxplanation beyond what is necessary for the understandng of the text. In other words we wish the children taught to read the bouk intelligently, just as thoy read the Third Book. This dnes not imply theological instruction.
2. You say, "This of necessity inplies that the teachers must themselves muke the Bible a subject of study, and that thoy must be examined as to their acquaintance with its contents." I reply: (1) Certainly a tencher must study the class-book before he can teach it intelligontly ; and surely no man would propose that a man or woman that will not study the Bible so far as to be able to teach thie pupils should be put ly Christian. parents in the position of tencher of their clildren. (2) Examination as to acquaintance with its contents would not be necessiry. No teacher is examined on the contents of the Thiird Book before he is renuired to teach it. Eut if a teachor had passed this in a public' school in which the Biblo was a class-book, he would be acquainted with it just as our teachers are now acyuainted with the Third Book, and he would be quite as coinpetent to teacli tho the former as the latter.
3. As to a chauge in the law-you are right. We wish the Regulations changed, but not the taxt of the School Act. I mean by this simply that no legislative action is requred to accomplosh the chango asked for, as both the spirit and lettor of tho law allow the clange to bo made without political or parliamentary interposition. Kcep our school interests if possible out of the political arena.

4: You ask, "How then (that is, without a penalty being:enacted) would any change in the wording of the Regulations promote thic
use of the Bible in schools?' I reply : 'Possession is nine points in lnw.f: If the use of the Bible were mandatory, it would bo used unless there were opposition. As matters now stand it will not be used, unless some learned ministor or layman (roligoous cranks (they havo been called) stir up the commumity, and create, bad feeling hy arnusing the animosity of the opposing munvrity, if there be such. I am convinced that there is not one school section in the province in which a majority would vote the Biblo out. Whereas we know that the number of schools in which the Bible is read by the pupils as a class-book is very small. Every man knows the difference between getting a disputed thing introduced, and maintaining it whon so established.
5. You advise the clergy "to exert thenaselves a little more in their own localities" I thank you for the advice. Some of us do this ; 'but we are of opinion that the most affectual way in which wo can exert oursolves is to ask the Department, not the Legislature, to change the present Regulations-and we venture to prefer our opinion to your advice. Pardon us.
I am much pleased to see that you have given so full an abstract from Mr. McEwan's address, and most heartily do I subscribe to the closing sentiment: " $I$ is not an opon question that this Book dominates the literary work of nodern life with its moral power, and what we wish to appear in national life must be taught in our schools.

I am, yours truly,
The Masis, Dundss,
Joun Larig. Jan. 15. $\mathbf{i 8 8 3 .}$
We do not see anything in Mr. Laing's reply to our previous remarks to justify us in changing the opinion therein expressed, namely, that whatever may be shown to be the case hereafter, the time has not yet come for a change in the law relating to the use of the Bible in schools. We believe that the more general use of the Bible would be both acceptable to the masses of the people and profitable to the pupils. We believe also that there is no better way of teaching Cbristian ethicsthe noblest system of moral philosophy the wurld bas ever seen-than by the use of certain portions of the sacred text. On the other hand we believe that a steady improvement is taking place in the morality of our schools, and also that the improvement would be more marked and the use of the Bible more general if clergymen would only use the influence in their own localities which the law permits and muites them to exercise.
We agree with Mr. Laing and other ministers of the gospel that it is unreasonable to expect them to teach in the schools. It is not unreasonable, however, to ask them to visit the schools more frequently, and that in their official capacity. In this direction we look for the best solution of the whole difficulty. Let all the clergymen in the Province, of all denominations, unite in the movement to promote the use of the Bible as a text-book, and see what result one year will produce. If there is not a marked and decided improvement then it will be time enough to speak of changing the law-for it must never be forgoten that the Departmental Regulations are as much part of the school law as the text of the Act is. As such they cannot be lightly changed; especially in regard to points where the language of the regulations is the result of careful compromise and has been left unchanged for a generation.

## SCHOOL LEGISLATION.

The sudden and lamented illness of the Hon. Adam Crooks a. the very opening of the late session of the Ontario I.cgislature, prevented any amendments from being made to the School Acts. Had he remained in his usual health it was his intention to secure a workable consolidation of a law which is now to some extent a thing of shreds and patches. Since the last consolidation several amendments have been made to the law by Act of Yarliament, and it would be a benefit to all who have anything to do with school work to get the tent of the Acts consolidated into a single statute.
It is to be l:oped that Mr. Crooks illness is onls temporary and that he will be enable t to bring about this much necded improvement in the law, as well as continue to successfully administer it for a long time to come. But it is to be hoped also that when the law is thus simplified in form no more amendments will be allowed of the kind hitherto so common. Every statute is defective in some minor puitits, but it is frequently better to allow matters to adapt themselves to a defective system than to keep persistently tinkerins it. The School Act would not absolutely require amendment for years to come, and those members of the legislature_who are always searching out little defects and introducing bills to remedy them will confer a benefit on the public by turning their attention for a while to other matters.

THE ENGLISH EDUCATION ACT.

The readers of the Canada School Journal can rightfully demand to be kept au courant with significant educational movements and advances in other lands. In our last number attention was directed to the voluminous and instructive Report of the National Bureau of Education at Washington. Our brief reference by no means exhausted the interest attaching to that important publication, and we propose at an early date ṭo recur to its suggestive statistics for some lessons approprizte to our own educational position. From time to time we have chronicled the developments of popular education in Great Britain, as departmental circulars and parliamentary discussions have placed the means at our disposal.
As tending to show the depth to which the roots of national education have already struck down in the Mother Country, we may properly refer to a somewhat remarkable article contributed to The Nineteenth Century for December, by his eminence Cardinal Manning. It does not concern either us or our readers to discuss the main drift of the eloquent Archbishop's essay, which is in a word, to show that voluntary, as well as board schools should share in the rates levied for the support of elementary education. We refer to it in view of the distinct emphasis with which it recognizes the value and substantial permanence of the principles underlying the Education Act of 1870 . "'To propose its repeal,' we are told, would be like proposing the repeal of the Gregorian Calendar." ......"The Act of 1870 was necessary. The population : $\because$
outgrown alt existing means of education. The children uncducated counted by hundreds of thousands, perhaps by millions. The standard of education was on a low level. England was belind both Germany and France in the diffusion of intellectual culture, at least among the lower and middle classes of the people." In these few and forcible words the whole story is told. Incidentally, we may refer to them as illustrating that rare power of compression which only the rarest literars genius can command. Further, the learned prelate has studied too deeply the phenomena of European politics and sociology to have any sympathy with Richard Grant White's monstrous dogma, that ignorance is a safeguard and guarantec of virtue:
"Putting away all ecclesiastical questions, it cannot be denied that the state is justified in providing for the education of its people. It has a right to protect itself from the dangers arising from ignorance and vice, which breed crime and turbulence. It has a duty also to protect children from the neglect and $\sin$ of parents, and to guard their rights to recenve an education which shall fit them for human society and civil life." The suhsequent suggested modifications of the rights of the civil power do not affect the validity of the primal principles here so eloquently stated. ,
The Elementary Education Act has been in force for thirteen years, working its way quietly and effectively, while the external life of the nation has been shaken by the conflicts of diplomacy, by "wars and the rumors of wars" "Its principles," we are told, "have been so long admitted, and have worked themselves so deeply into public opinion and daily practice, that no scheme or proposition at variance with them would be listened to. The condition thus made for us being irreversible, our duty is to work upon it and to work onward from it for the future." The "irreversible condition" is defined minutely in the following admirable summary of the principles of the Education Act:
" I . That education, whether by voluntary schools or by rate schools, shall be universal, and co-extensive with the needs of the whole population.
2. That an education rate shall be levied in all places where the existing schools are not sufficient for the population in number or efficiency, and that such sum shall be administered by a board elected by the rate-payers.
3. That the standard of education shall be raised to meet the needs and gradations of the people.
4. That all schools receiving aid, whether by Government grants,or rates, shall be brought under the provisions of the statute law.
5. That all such schools shall be under inspection of the Government, and bound by all minutes and codes of the committee of Privy Council as sanctioned by Parliament.
6. That education shall, under certain conditions and for certain classes, be compulsory."

Candor compels us to express a doubt if "the further ex:tension of these principles" which the Cardinal Archbishop advocates be really feasible. Certainly it is not in accord with the prevailing temper of the English people at this precise epoch.

## sthatlematical Pepartment.

## INTERMEDIATE EXAMINATIONS. - DEC., 1882.

## ARITHMETIC.

## Trime-Tudee Hours.

1. 'There is $\mathfrak{a}$ rectangle whose longth is $1 \frac{1}{2}$ times its width, ard which may bo p'anked with boards of lengths 5 , 8 , or 9 ft , isll runmug parallol to any (the samo) side. What is the least stze of the rectangle ?
 a guinea be puro gold, and tho remainder an alloy 50 times less valuable; what is the weight of the pure gold in a guinea?
2. How much money must be invested in stuck at $97 \pm$ which pays an annual dividend of 0 per cent., to realize an income of $\$ 600$ per annum?
3. A person invests $8 \$ 000$ in purchasing stock it 90 (par value 100 ). In 3 months he sells 30 shares at 95 , and in 3 months thereafter the remainder at 87. If his monoy be worth 8 per cent., what does he gain or lose by the transaction, no dividond having been paid on the stock in the interval?
b. Show that the fullowing is appruximately a currect methud of calculating interest at 6 per cent. for a given number of days:"Divide the number of days by 6 ; multiply the quotient by the number of dollars on which interest is required, and the result is the interest expressed in mills."
4. A bill due 4 months hence is discounted at 7 per cent. per annum (true discount), and $\$ 1207$ is received for it. What is its ace value?
5. At what rate per cent. will $\$ 100$ in 3 years amount to as much as $\$ 120$ in 2 years at 7 per cent.?
6. A mortgage which is re jeemed, principal and interest, by 3 equal annual payments of 3 eicio each, is to be sold. What justly should now (a year before the first payment) be paid for it ; interest 7 per cent. per annum?
7. A grocer has teas at $\overline{0} s$. and $3 s$. Gd. per llb. He mixes them in equal quantities, and solls the mixture at such a price that ho gains as nuch per cent. on one kind as he loses per cent. on the other. What was the selling price, and what does he gain or lose per cent. ?
8. The volume of a solid whose faces are rectangles is 786 cubic feet, and its edges are as the numbers 1, 2,3. Find lengths of these edges.

Valucs:-1, $10 ; 2,12: 3,8 ; 4,10 ;$ घ, $10 ; 6,8 ; 7,10 ; 8,1 C$; 0, 12; 10, 10 .

## solutions.

1. The sides aro as $3: 2 ; 360 \mathrm{ft}$. is the least distance that will exactly contain $\overline{5}, 8$, or 9 ft . $\therefore 3 \times 360$ and $2 \times 360$, or 1080 by 720 is the loast rectangle of the kind.
2. Weight $=8$ weight of gold $+\frac{1}{6}$ weight of alloy

3. $\frac{\text { Sum }}{\pi 7} \times 6=600 \therefore$ sum $=100 \times 97 \frac{1}{2}=\$ 9750$.
4. $4500 \div 90=50$ shares.

Int. on 4500 for $3 \mathrm{~m} .=890$. Rec. $30 \times 9 \overline{5}=28 \overline{0} 0$, bal. on int. $=1650$ : $1650 \quad$ < $=\$ 33$. " $20 \times 87=1740$

$$
\text { Total interest }=\$ 123
$$

Total $\mathrm{B}=\overline{4590} \therefore$ G on sales $=\$ 90$ $\therefore$ Loss $=123-90=\$ 33$
5. $\because \mathrm{iyr} .=360 \mathrm{dys}$. (nearly) $\therefore$ int. on $\$ 1$ for 1 day $=6$ cents $\div 360=$ $\frac{3}{6}$ mill

Int. un any sum $=\frac{1}{6}$ mill $\times$ days $\times$ sum $=\left(\frac{1}{2} y_{6} \times\right.$ sum $)$ mills, which is the rule.
 $\therefore$ faco $=1207 \times 3000=\$ 1296.56\}$.
7. Kind of interest not stated.
$100(1+3 r)=120(1+18 f)$; or $100(1+r)^{3}=120\left(1+i_{5}\right)^{2}$ according as simple or compound int. is meant. In the former caso
$1+3 r=1$ an $^{2} \times 160=12 \times 114=1 \cdot 368 \quad \therefore 3 r=368$

$$
\therefore 3 R=36 \cdot 8, \text { and } R=121_{5}^{4} \% \%
$$

In thu lation caso
$(1+r)^{3}=1 \hat{0}(1 \cdot 07)^{2}=1 \cdot 37388$
$\therefore 1+r=\sqrt[3]{1 \cdot 3 i s s s}=1 \cdot 1116+, \therefore r=\cdot 1116, a=112^{5}-n e a r l y$.
8. Wo shall cesume compound interest intended.

Then aut. of mortgage $=250\left(1 \cdot 07^{2}+1 \cdot 07+1\right)=P$. W. $x(1.07)^{3}$
or $\mathrm{P} . \mathrm{W} .=250 \times \frac{1 \cdot 0^{2}+1 \cdot 07+1}{1 \cdot 07^{3}}=803 \cdot 72 \overline{\mathrm{j}}+1 \cdot 225043=8056.08$.
Or wo may take thesum of the present worths of the 3 payts. thus
P. W. $=\frac{2 \overline{0} 0}{1 \cdot 07}+\frac{250}{1 \cdot 07^{2}}+\frac{250}{1 \cdot 07^{3}}=2 \overline{0} 0\left(\frac{1}{1 \cdot 07}+\frac{1}{1 \cdot 07^{2}}+\frac{1}{1 \cdot 07^{3}}\right)$
$=200 \times \frac{1.07^{2}+1.07+1}{1.07^{3}}$ as before.
See Examination Paryrs in Amphmetic, p. 3.
9. Cost of teas $=$ (ifi, and $42 d$., cost of mixture $=5.1 d$.

10. Assumin!/ that each solid angle has its threo planes mutually at right angles, lot $x$ be the number of feet in the shortest edge
$\therefore G x^{3}=786$ cub. ft. $\quad \therefore x^{3}=131 \quad x=5 \cdot 078753$, and the lengths aro $0.078 \% 53,10.15750 \mathrm{G}$, and $15 \cdot 236259 \mathrm{ft}$. respectively.

## ALGEBRA. <br> Trme-Two Houns and a Hale.

1. Find the factors of $x^{3}+y^{3}+z^{3}$ when $x+y+z=0$.

Find the binomial expression which equated to \%ero will mako $x^{3}-(2 a+b) x^{2}+\left(2 a b+a^{2}\right) x-a^{2} b$ vanish.
2. Without simplifying $(a+b+c)\left({ }^{\prime} b+b c+a c\right)-(a+b)(b+c)(c+a)$, shew that it is equal to abc.
3: Find the H. C. F. of
$x^{3}-2 x^{2} y+4 x y^{2}-8 y^{3}$ and $x^{3}+2 x^{2} y+4 x y^{2}+8 y^{3}$; and tho L.C.M.
of
$(a+b)\left\{(a+b)^{2}-c^{2}\right\}$ and $s b^{2} c^{2}-\left(a^{2}-b^{2}-c^{2}\right)^{2}$.
4. Simplify
(1) $\frac{(x+a)(x+b)}{(b-c)(b-a)}+\frac{(x+b)(x+c)}{(c-a)(a-b)}+\frac{(x+c)(x+a)}{(a-b)(b-c)}$
(?) $\left(\frac{c}{}(s-a)(s-b)+s(s-b)(s-c)\right.$
$+s(s-c)(s-a)-(s-a)(s-b)(s-c)$ where $2 s=a+b+c$.
5. Solre the equations
(1) $\frac{1}{x-1}+\frac{1}{x-2}=\frac{2}{x}$.
(2) $\frac{x}{a+b-c}+\frac{x}{a+b+c}=\frac{a+b}{a^{2}+b^{3}-c^{2}+2 a b}$.
(3) $\frac{x}{(a-b)(b-c)}+\frac{a}{(b-c)(c-a)}+\frac{a}{(c-a)(a-b)}$ $=\frac{1}{(a-b)(b-c)(c-a)}$.
. C. A man buys $a$ shares of a certain stock for $b$ dollars, and solls c shares of the stock at an advance of $?$ per cent. At what price should he sell the remainder so as to gain $3 p$ per cent. on thie whole. 7. Extract the square root of
$\frac{x}{y}+\frac{y}{x}+x+y+2+\frac{x}{\sqrt{y}}+\frac{y}{\sqrt{x}}+\sqrt{x}+\sqrt{y}+2 \sqrt{x y}$; and the cube root of $a^{3}+x^{3}$ to three termg.
8. (1) If $a^{4}+\frac{1}{a^{4}}=a^{2}+\frac{1}{a^{2}}+2$, determine the value of $a^{2}+\frac{1}{a^{2}}$.
(2) If $a x^{2}+b y^{2}+\omega^{2}+2 a^{\prime} y x+2 b^{\prime}=x+2 c^{\prime} x y=0$ and
$\left(a x+\varepsilon^{\prime} y+b^{\prime} z\right)^{\prime}=A y^{2}+B y z+C z^{2}$, determino $A, B, C$.
$\cdots$ Solve the equations
(1) $\left\{\begin{array}{c}\frac{1}{x}+\frac{2}{y}=8 \\ 6 x y=1\end{array}\right.$
(2) $x^{3}+x y^{2}=16=1 y^{3}+x^{2} y$.
(3) Find values for $x$ and $y$ which will nake $x^{2} y+y^{3}+x$ and $x y^{2}+j^{3}+y$ simultanoously vanish.
10. There are three numbers; their sum is equal to their product; the sum of the first and the third is half the second; and the pro. duct of tho first and second, less the first, is equal to the third. Find the numbers.

## solutions.

1. If $c+y+=0, x+y=-x^{3}+y^{3}+3 x y(x+y)=-z^{3}$
i.c. $x^{3}+y^{3}+3 x y(-z)=-x^{3} \quad \therefore x^{3}+y^{3}+z^{3}=3 x y z$.

Observe that only a singlo power of $\bar{b}$ is involved. Arrango according to $b$, and wo have
$-b\left(x^{3}-2 a x+a^{2}\right)+2\left(x^{2}-2 a x+a^{2}\right)$ or $(x-b)(x-a)^{3}$
Thus if $x-b=0$ or if $x-a=0$ the given expression vanishes.
See Teacmers' Handeoök p. 81.
2. Cousurve the symmotry. If $u$ is afactor the whole expression must vanish when that factor vanishes. Put $a=0$ and wn get
$(b+c) b c-b c(b+c)=0$. Henco ais in factor ; by symmotry $b$ and c are factors .. alre 18 a fictor.
$\therefore$ Express. $=$ Kubs whoro $K$ is a mumorical factor, sume oach term is of only threo dimensions. I'o find $K$, put $a=b=c=1$, and $K=1$.

Sco Thachers' Havimook p. $8 \overline{\mathrm{j}}$.
3. For $2 y$ writo $m$ and $A=x^{4}-m x^{2}+m^{2} x-m^{3}, B=x^{3}+m x^{2}+m^{2} x$ $+m^{3}$.
Then $A+B=2 x\left(x^{2}+m^{2}\right), \quad 1-B=2 m\left(x^{2}+m^{2}\right) \cdot x^{2}+m^{2}$, i.t. $x^{2}$ $+4 y^{2}=$ H.C.F.
$R=(a+b)(a+b-c)(a+b+c)$
$S=(a+b-c)(a-b+c)(a+b+i)(b+c-a)$
$\therefore$ L.C.M. $=(a+b)(a+b-c)(a+b+c)(a-b+c)(b+c-a)$
4. (1) Numr. of sum $=(x+a)(x+b)(a-b)+(x+b)(x+c)(b-c)+$ $(x+c)(x+1)(c-(t)$.

To factor this, put $(a-b)=0$ i.p. $a=b$, (as in $\frac{a}{2}$ ) and we have
$0+(x+a)(x+c)(a-c)+(x+c)(x+a)(c-a)$ which $=0 \therefore a-b$ is a factor
$\therefore$ Expи. $=K K(a-b)(b-c)(c-a) \quad$ Fut $\quad x=0, \quad \quad a=1, \quad b=2, \quad c=3$ and wo find $K=-1$ which is the value of the sum, sinco $(a-b)(b-c)(c-a)$ cancels out of Numerator and Denomonator.
See 'TeAchers' HaNdrook p. 63.
(2) Put $1=0$ and wo have $2 s=b+c$, also
$s(s)(s-b)+s(s-b)(s-c)+s(s-c)(s)-s(s-b)(s-c)$
or $s^{2}\{(s-b)+(s-c)\}$, i.e. $s^{2}\{2 x-(b+c)\}$, which $=0$.
Hance $"$ is a factur and cipresstult = habc. Io tund $h$, put $a=b$ $=c=2 \therefore s=3$, and $K$ is found to equal $1 \therefore$ expression $=$ uble.
5. (1) Transpose thus $\frac{1}{x-1}-\frac{1}{x}=\frac{1}{x}-\frac{1}{x-2}$. Add tho sides sep'ly ind $\frac{1}{x(x-1)}=\frac{-2}{x(x-2)} \therefore x=0$ and $\frac{1}{x-1}=\frac{-2}{x-2} \therefore x=\frac{1}{3}$. (2) For $a+b$ write $m$ and we get

$$
\frac{x}{n-c}+\frac{x}{m+c}=\frac{m}{(m+c)(m-c)} \therefore 2 m x=m \text { and } x=\underline{2} .
$$

(3) Clear of fractions ; $x(c-u+a-b+b-c)=1$
$x(0)=1, x=-\frac{1}{0}=\infty$.
6. a shares cost $\$ b$, one share $\operatorname{cost} \$ \frac{b}{a}$ Ad. of $p \%=\left(1+\frac{l^{\prime}}{100}\right)^{6}$ $\therefore c$ shares sold for $\frac{\text { bc }}{100 \pi}(p+100)$.
Total procceds need to be $\$ b\left(1+\frac{3 p}{100}\right)=\frac{6}{100}(3 p+100)$
$\therefore$ remaining ( $(t-c)$ shares must sell for

$$
\frac{b}{100}(3 p+100-) \frac{b c}{100 a}(p+100)
$$

or price of one share $=\frac{b}{100(a-c)}\left\{3 p+100-\frac{c}{a}(p+100)\right\}$
7. Taking square root of first four terms we have $\frac{\sqrt{x}}{\sqrt{x}}+\frac{\sqrt{y}}{\sqrt{x}}+\sqrt{x}+\sqrt{y}$ the square of which agrees with the given expression except that it would require the coefticients of 6 th 7 th, 8 th and 9 th terms to be 2 instead of one. Hence there is a remainder $-\frac{x}{\sqrt{y}}-\frac{y}{\sqrt{x}}-\sqrt{x}-\sqrt{y}$. Sce Teachenss Hanidnook p. 11 $(1+x)^{\frac{p}{q}}=1+\frac{p}{q} x+\frac{p(-q)}{1 \cdot 2 \cdot q^{2}} x^{2}+$ ©c. by Binomial Theorem.
Thus $\left(a^{3}+x^{3}\right)^{\frac{5}{2}}=a\left(1+\frac{x^{3}}{a^{3}}\right)^{3}=c x\left\{1+\frac{1}{3}\left(\frac{x^{3}}{a^{3}}\right)+\frac{1 \cdot-2}{1 \cdot 2 \cdot 3^{2}}\left(\frac{x^{3}}{a^{8}}\right)^{3}+\mathbb{A}.\right\}$

$$
=1+\frac{x^{3}}{3 a^{2}}-\frac{x^{3}}{9 a^{2}}+d \mathrm{Cc}
$$

8. (1) Let $a^{2}+\frac{1}{a^{2}}=m$
$\therefore m^{2}-2=a^{4}+\frac{1}{a^{4}}$ which $=a^{2}+\frac{1}{a^{2}}+2=m+2$
.. $m^{2}-m-4=0, m=\frac{1}{2}(1 \pm \sqrt{17})=a^{2}+\frac{1}{a 2}$.
Multuply 1 st by a and 2nd expanded, three terms cancel and we get $y^{2}\left(c_{1}-a b\right)+z^{2}\left(b_{1}^{2}-a c\right)+y *\left(b_{1} c_{1}-a c_{1}\right) 2=A y^{2}+B y z+C c_{2}^{2}$
$\therefore A=c_{1}-a b, B=b_{1}{ }^{*}-a c_{1} C=b_{1} c_{1}-a a_{2}$ if the oxpression is an identity.
9. (1) $2 x+y=8 x y=3$ from 2nd ; $6 x+3 y=4, y=4-6 x$
$\left(6 x y=8 x-12 x^{3}=1,12 x^{2}-8 x+1=0\right.$ or $(6 x-1)(2 x-1)=0$, $x=\frac{1}{6}$ or $\frac{1}{2}$ (ce.
(2) Pat $y=K x$ and divide 1 st by 2nd $\cdot 1+K^{2}=K^{3}+K$
or $K^{3}-K^{2}+K-1=0$ i.c. $(K-1)\left(K^{2}+K+1\right)=0$
$\therefore K=1$ ord $(-1 \pm \sqrt{-9})$.
Substitute theso values and wo get throe values each for and $y$.
(3) Add, and $x u(x+y)+\left(x^{2}+1 y^{3}\right)+(x+y)=0 \therefore x+y=0 \quad x=-y$ Substitute this valuo of $y$ in lst and
$-x^{3}-x^{3}+x=0 \therefore x=0=1$, al80 $-2 x^{2}+1=0,41^{7}=2, x= \pm \frac{1}{2} \sqrt{2}$ $\therefore y=\mp!\sqrt{2}$.
10. Wo have $x+y+z=x y z, 2 x+2 z=y, x y-x=$

From 3rd and 2nd $x y=r+z=\frac{1}{2} y \quad \therefore y=0, x=\frac{1}{2}, z=-\frac{1}{2}$.

## NATURAL PHILOSOPHY.

## Time-Two Houns and a Half.

1. What power (in, pounds) is required to maintain a barrol weighing 150 pounds on an inclined plane Plane inclined at an angle of $45^{\circ}$ to tho horizon.
2. 1 power $=6$ pounds, applied at the ond of a bar of metal of uniform thickness and density, balances a weight $=64$ pounds, applied 4 inches from the fulcrum. The bar acts as a lover of tho lst class, and is 3 feet 6 inches long. Dotermine tho jressure exeried by the system upon the fulcrum.
3. State the conditions of equilibrium of floating bodies.
4. Distinguish between:-
(i.) Mass and Weight;
(ii.) Density and Specific Gravity.
5. What pressure must bo exorted upun a cylinder of fir wood, the volume of whioh -34.248 cubic inches, that it may bototally submerged in water? (Weight of cubic inch of water $=\mathbf{2 0 2 . 4 5 0}$ grains.)
6. Explain the elleory of the Siphon.
7. How may the contro of gavity of a body be determined experimentally?
8. A cylinder of wood 10 inches high sinks to a depth of $5 \frac{1}{2}$ inches in water, to the depth of 7 inches in another liquid. What is tho specific gravity of the lattor liquid?
9. The diameter of the plate of a hydrostatic bellows is 16 inches, a weight of 180 pounds is placed upon it; what will be tho height of the water in the pipe? Diamater of pipe one inch.

## solutions.

1 The direction of the power is omitted in the problem.
Let $A B=$ length of plane= $L, B C=$ height $=H, A C=$ brae $=B$.
From $A B$ draw $K M$ in the direction in which the power acts, tako $K M$ to represent the power, draw $M N$ vertically downwards; and from $K$ draw $K N$ perpendicular to plane meoting $M N$ in $N$. Then the irimglo MrK.N represents the three forces which are in equilibrium, $\therefore P: W: R=K M: M N: N K$. But we cannot solve the triangle $K M L N$ unless the angle $M K B$ is given, and when givon we require trigonometry unless it be $30^{\circ}, 40^{\circ}$, or $50^{\circ}$.

In case the porver acts parallel to the plane the above proportion becomes, by similar triangles, $P: W: R=H: L: B$; if pamplel to baso $P: W: R=H: B: L$. And in this problem $W=150$ and $H=B \therefore L$ $\Rightarrow H \sqrt{2}$, so that wo have $P: 150=1: \sqrt{2}$, or $P: 150=1: 1 \therefore P=75 \sqrt{2}$ or 150.
2. The direction of the power is not given. Tho position of the weight is left uncertain. If it is not at the end, and the bar projects beyond the point where the weight is suspended, the problom is indeterminate. Assuming the power to act vertically and the woight to hang from the extromity to the bar, let $B=$ weight of bar, whose centre of gravity will be 17 inches from fulcrum.

Wo have $4 \times 64=17 B+6 \times 38$, whence $B=1.12$.
Total pressure $=64+1 \frac{17}{8}+6=713 \frac{7}{6}$.
3. Book-work.
4. The word nuss is used as an abbreviation for "quantity of matter."-Todhunter:

It is found that on all bodies on the carth a pressure is exerted downwards in a rertical direction, and this pressure which is called the weight of the body is invarinble at the same place for the same body at all times, whatover form, size, or position the body may be made to take. -Chcrrimun. We estimate tho mass by observing tho weight, since they are proportional to ench other.

Density expresses the rolation between the mass and the volume.
Specific Gruvity denotes the relation between the density of a given substance and the density of a standard substanco.
5. S. G. of fir wood not given. It is $=-6$.

Hence submerging pressure required $=4$, or on given cylindor $=94.248 \times 252.456 \times \cdot 4$ grains.
6. and 7 . Book-work.
8. Weight of cylinder $=56$ inches of water $\Rightarrow 7$ incines of $l_{2}$ quad
$\therefore 1$ inch of liquid $=5 \underline{2} \div 7=\frac{17}{}$ inch of water. $S: G .=12$.
9. Area of bellows : area of pipe $=16^{2}: 1^{2}=256: 1$

Now 1728 cubic inches in water woigh about 1000\%
$\therefore$ numbèr cubio inches in p pipo $=1000 \div 18=88{ }^{\circ}=$ height.

## EOCLID.

Time-Two Hours and a Hade.

1. Sinto the different conditions of equality of two trianglea, as givenit. he first book of Euchad.
2. If two triangles have two sides in ono oqual to two sides in the othor, each to each, and an angle, opposito an equal sido, equal in each, are the triangles nocessarily equal? Explain.
3. Any two sides of $a$ triangle are together greater than the third side.
4. If a point be taken within a triangle and lines be drawn from it to the extremities of the base, the sum of theso lines is less than the sum of the two sides of the triangle.
5. The three angles of a triangle are together equal to two right angles.
6. Three unlimited straight lines intersect ono another not in a common point. What is the sum of all the angles formed?
7. If a line be divided into two equal parts and also into two unequal parts, the square upon the greater unequal part is equal to the square upon the less unequal part, together with four times the rectangle contained hy the half lineand the line between the points of section.
8. $A B C$ is a $t_{2}$ sngle, and $C D$ bisects the baso $A B$ in $D$. Show that $A C^{2}+C B^{2}=2 A D^{3}+2 D C^{2}$.
9. Show how to constrtet a square equal to a given triangle. solutions.
10. There are four cases. 4, 26, 8, 26. See Hamblin Smith's Geometry p. 15, or Potts's Euclid p. 54, Todhunter's Euclid p. 261
11. If the angles opposite to the other equal sides be both acute or both obtuse or if one of them be $n$ right angle the triangles are equal in all respects.

Seq H. Sinith's Prop. E p. 42, Potts's p. 54, Todhunter p. 261.
3. I. 20.
4. I. 21.
b. I. 32.
6. Twolve right angles. I. 15 Cor. 1 ,
7. $\frac{A}{A C^{2}=B C^{2}} \quad C \quad D \quad B^{\prime}$
$=D B^{3}+C D^{2}+2 C D \cdot D B$
$A C^{2}+C D^{2}=D B^{2}+2 C D^{2}+20 D \cdot D B$
$=D B^{2}+2 B C . C D$ (II. 3.)
$A C^{2}+C D^{2}+2 A C \cdot C D=D B^{2}+4 B C . C D$, since $A C . C D=B C C D$.
i.e. $A D^{2}=\perp!B^{2}+4 B C$.CD. (II. 4.) Q. E. D.
8. Dram CE porpendicular to $A \dot{B}$. There will be three figures according as the trianglo is isosceles, and $B$ obtuse or acute

Then 1st case follows from I. 47. In 2nd and 3rd cases $A C^{2}=A D^{2}+D C^{2}+2 A D . D E$ (II. 12).
$B C^{2}=B D^{3}+D C^{2}-2 B D . D E$ (II. 13). But $B D=A D$ adding $A C^{2}+B G^{2}=2 A D^{4}+2 D C^{2}$. Q. F. D.
9. Particular case of $I$. 14 , in which apply I. 42 instead of $T$. 45

## ADMISSION TO HIGH SCHOOLS.-DEC., 1882.

## ARITHALETIO.

1. From 935 take 846 , explaining clearly the reason for each step.

Tho difference between 82610 and the product of two numbers.is seventy million three liundred thousand. One of the numbers is 9402; find the other.
2. Find the amount of the following bill:- $96 \mathrm{lbs}, 8 \mathrm{oz}$. beef at
 16 lba .6 oz turkey at 18 c . $; 4 \mathrm{lbs} 10 \mathrm{oz}$ suct at 16 c .
3. Find the L. M. M. of $11,14,28,22,7,56,42,81 ;$ and the G. C. M. of $40545 ; 12408$.

5. Prove that $1.020 .05=20.5$.

Find the cost of . $062 \overline{5}$ of 112 lbs s. $\mathrm{u} g \mathrm{gar}$, when 1 lb . costs $.070312 \bar{\circ}$ of $16 \%$.
0. Reduce 45740108 square inches to acres.
7. The bottom of a cistern is 7 ft .6 in . by 8 ft . 2 in . How doop must it be to contain 3750 lbs . of water, a cubic ft. of water weigh. Ing 1000 ounces?
8. A. runs a milo race with B. and loses; had his speed been a third greater ho would ilave won by 22 yards. Find the ratio of $A$ 's. speed to $B$ 's.
9! A. does $\frac{1}{3}$ of a piece of work in 6 hours; B. does $\frac{3}{4}$ of what remains in 2 hours ; and C. finishes the remaiader of the work in 30 minutes. In what time would all working together do the work?
10. By solling toa at 00c. per 1b. a grocer loses 20 per cent. ; what should he sell it at to gain 20 per cent. ?

## solutions.

1. Book work. See H. Smith's.Arith. Can. Eid. p. 13.

Product - $82610=70300000$
$\therefore$ Product $=70300000+82610=70382610$
$\therefore$ Reqd. factor $=70382010 \div-9402=$
2. $37 \frac{1}{8}$ ) $16=5.94$

168 (3) $14=2 \cdot 823$
7 (3) $\cdot 12=\cdot 93$
15 ( $0 \cdot 18=2 \cdot 763=\$ 11 \cdot 962$.
3. L. C. M. $=$ L. C. M. of $22,56,42,81=$ L. O.M. of
$11 \times 2,7 \times 2^{3}, 7 \times 3 \times 2,3^{4}=11 \times 8 \times 7 \times 81=49896$.
$40545=5 \times 9 \times 17+53$, of which factors only 9 and 17 will divido 124083
$\therefore$ G. C. M. $=153$.
4. Take a line 8 units in length, and divide it into 12 equal parts.

Encnce 1 unit in length will contain 4 of the equal parts
and tof a unitim length will contain 1
Again 4 of the whole 3 units in length will contain 3 of the equal parts
i.e., $\frac{3}{4}$ of one unit in length, and $\ddagger$ of three units each contain 3 of the equal parts
$\therefore$ they are equal to each other.

5. Quotient $=1 \cdot 02 \overline{5} \div 05=1025 \div 50=20 \cdot 5$.

1 Hb . costs 0703125 of 10 s .
$\therefore 112 \mathrm{Hbs}$ cost $112 \times 070312 \mathrm{o}$ of 16 s .
$\therefore \quad 062 \overline{0}$ of 112 tbs c cost $0695 \times 112 \times \cdot 0703125$ of 163 .
$=\cdot 06+112 \times 0703_{8}^{2} \times 16=700 \times 1 \frac{1}{8}=£ 35 \times 1 \frac{1}{8}=£ 89 \sim 7,6$.
6. 1245740108

$$
1 \overline{2} \mid 281167 \overline{5}-8
$$

$9] 317631-7 \quad \therefore 7 \times 12+8=92 \mathrm{sq}$. in.
$1210 \overline{05293}-2$ sq. ft.
20 roods - 1093 sq. yds.

$$
121 \frac{4}{4372}
$$

36 parciues -16 sq. yds.
Ans. 5ac. " 36 per. ${ }^{16} 16 \mathrm{sq}$. yds. " 2 sq . ft. 0 . 2 sqq . in.
7. $3750 \mathrm{Hbs}=60000 \mathrm{oz}$. and $\therefore=60 \mathrm{cub}$. ft

8. $B^{\prime} s$ distance $+\frac{1}{3} B^{\prime}$, distance $=1750+22$ yds.

骂 $B$ 's distance $=1782 \mathrm{yds}$.
$B ' s$ distance $=7 \times 1782=13362$.
$\therefore$ A's rate $: B$ 's rate $=3520: 2679=320: 243$.
Otherwise: $22 \mathrm{yds}=\frac{1}{2}$ mile $\vdots$ in 2nd case $A$ would co for and.

- $B \frac{81}{80} \mathrm{ml}$.

$\therefore$ rates are $=320: 243$.

9. $A$ does $\frac{2}{3}$ work in $6 \mathrm{hrs} ; \quad B \frac{8}{4} \times \frac{1}{3}$ in $2 ; C$, $\frac{1}{6} \times \frac{1}{3}$ in $\frac{1}{2} \mathrm{hr}$.
$\therefore A$ does $f$ work ; $B \frac{1}{8}$ work; and $C \frac{1}{f}$ Fork in ono hour
i.e. $A, B$ and $C$ do $\frac{z}{4}+\frac{1}{8}+\frac{d}{} \frac{39}{2}$ work in 1 hr.

$10.20 \%=1$. Cost -1 cost $=60 \mathrm{c} .,=1$ cost $\therefore$ cost $=75 \mathrm{c}$.
Selling price $=\cos t+\frac{1}{8} \cos t=\frac{\mathfrak{G}}{5} \cos t=\frac{n}{5} \times 75=90 \mathrm{c}$.

In whatsoever thing thou hast thyself felt interest, in that or in nothing hopi to inspire others with interest.-Carlyle.
Thought is the great art : thought can speed faster than tho bird fliez: The hand of the artisan may lose its cunning, but the discipline of thought is personal property upon which the grave shall have no mort-gage--Newnan Smyth.

## Succial zatticles.

## THE SPELLING-BOOK.

To spell, or not to spell? that is the question the Boston supervisors, in a report made to the selinol board of that city, have answered in tho nogative. Their argument, briefly put, is this: The "end sought for in any teaching of spolling" is to give tho pupil ability to "spell the words of his own vocabulary;" and, again, "to train children to spell correctly common words." "But correctly written word-forms are most easily and surely acquired when the words are used in their natural connections as expressing thought." Therefore is a spelling-bonk not needed,-indeed, is a positive ovil.

We should have little fault to find with this argument provided we could arcept the premises. If it bo truc that the end sought for in spelling is simply ahility to spell the urdinary vucabulary of the child enrrectly, then the best way to teach spelling would be by written enmposition ; in fact, that would be the only sensible way. But it seems to us that this view of the matter is narrow. A spollingbonk properly edited, should have a three-fuld purpose. Its first object would be, as stated in the argument above, to give to the child the ability "to spell the words of his uwn vocabulary." But further than that (2), it would afford the simplest and most efficient means of increasing his vocabulary ; and (3), it would place in the teacher's hand the best instrument for the training of the child in the use of his native tongue. It is a griov uus mastake to make the vocabularies of the mass of children to depend upon the words thoy may pirk up in the street or home. Children bred an cultivated homes, or young readers of anany buoke, are nut holped much by a spelling-bonk. But it must be remembered that the many are not thus bred, neither are they at an early age great devourers of books. These untoward circumstances exist, and the schuols are establushed to supplement these deficiencies. Huw shall it be donel The Boston supervisnrs say, by copying passages frum the reading lessons, nriting senteaces frum dictation, cumpusitions suggested by daily lessnns in gengraphy, histury, physiulugy, ete. Thes is all very well, as far as it ooes. But it places the child's vocabulary at the mercy of a guess, : 'hit-ur miss." He may at the ond of his school-course have met frequently enough all the words that ho ought to know, and be able to use them, and he may nut ; there is no system, and therefore, un surety. A pruperly arranged spollingbook woyld bring to the eye and memory a full vocabulary; and at would bring an roderly arrangement, which is also essential.

Besides, this cupying of sentences, preces of postry and the like, does not necessarily give to the child a better knowledge of the use of words. It may be a perfurmance quite as perifunctory as the spolling of culunins of wurds. Two things are essential to fix the use of a word in the nemury of the child. First, he must have his attontion directed to it, and, secund, he must use -v a great number of times in ser.tences which he hunself has originated. It is, there. fore, practically better tw have the selected words by themselves in a book than scattered here and there, no one knows where. for the teachers, peraiventure, to light upon.

The use or non-use of the spelling-book is also influenced by another fact; namely, that if the child has not learned to spoll at the age of twelve or thirteen, the chances are that he will never loarn to spell after that. Now, if his knowledge of words is to be limited to the street and the fow toxt-books he may use, and there is to bo no systematic effort to increase his vocabulary, he will often havo cause for shame when he puts away his childish speech and plays the man.

Wo must confess that we do not think that tho ability to spoll correctly is of the highest order. Many valunble and pregnant thoughts have been written in what would be called to-day very poor Qucen's English. Spelling is a fashion rathor than a science. The spelling-book, thorefore, scems to us to be of very littlo value unless it sorves the threo-fold purpose which we have already montioned: and of these three functions, the training in the use of the word is the most important.-N. E. Jour. of Education.

## $\checkmark$ READING IN THE RIGHT DIRECTION.*

Dull peoplo take little thought about what they read. In their oyes one book is as good as another. It is not so with bright, quick-witted persans, determined to acquire a measure of self-culture. Their reading minulds their characters, gives method to thor tlinughts. and begets in them the purpose to uvercomo all difficulties. The last fow years have been prolific of biugraphies and personal recollections of famous men and women. "If wo learn anything from the recorded lines of Macaulay, Carlyle, Bushnell, John Stuart Mill. Mary Somerville, and othors, it is that in early life they were inspired by reading some one book, and educated by its silent force to a greator degree of mental activity. These books may have been as different in character as were the lives of those who studied them It seems oftentimes to have been of little consequence what the book may have been. It was enough that it inspired in them a will to do better things. Gouthe acknowledged his indebtedness to Foldsmith's "Vicar of Wakefield "just at a critical moment of his mental dovelopment, and attributed to this. charming little classic much of his subsequent education. "Percy's Reliques" fired the juvenile mind of Sir Waltor Scott, and stimulated him to enter upon a literary career. Any guod book, whether it be one of the world's great classics, the faithful record of some useful life, or even an obscure work of fiction, may quicken our intellect, influence our hearts, inspire us with hupe, and give new strength, courage, and faith. If the bouk however humble, deals with the chief interests of our daily life, we may get good from it.

Recognizing the importance of a proper choice of books, many wise men have devised schemes to direct the inxperienced reader. As a rule, such well meant but ill-advised courses of rearing are dreary failures. It is as difficult tu dictate a formal cours of mental fond fir another, as it wuuld be to prescribe a dally prouramme of physical food. That une man's meat is often another man's pnism is as true of reading as it is of eatmg.

We have not time to read everything, and would not if we culd. Need we be ashamed that we have never read a line of Spencor, if we gain daily inspiration frum Jongfelluw? Hume and Gibbon may he closed books tu one whu tahes unceasing delight in Abbott and Headley. Bacon and Muntagne's may bo only names to us, but Irving and Charles Lamb are uni daily compamons.

While we may have a hearty dislize for courses of reading which dictate particular books, we need nut discharge as worthless tho general suggestions oi wi . ind good men. Forinstance, Emerson's three rules, - never to read a book that is not a year old; never to read any but famed books; never to read but what you like, are sensible and practical. James Freeman Clarbe's rules are equally suggestive, - to read what interests you ; to read actively, not pas. sively; to read with order and method.
The advice of such men is merely suggestive and valügble as far as it goes. It is in the nature of things that it does not go far enough. We need something more. Personal help is the best, if we can get it ; some good friend to araken an interest which will

[^0]grow into onthusiasm, to stimulate our montal appotite, and inspire us with a love for books. Librarians who know thoir business, earnest teachors, good nows-papors, and thoughtful parents may dischargo, oftontimes, the honornble duties of a professor of books and reading. A wise friend who can make practical suggestious suitable to our mental vigor and grasp is our best help for the choice of books. Withoutguch an one we must follow our own inclinations. The important thing is to havo an interest in the book we read. It is botter to read one of Abbott's histories with intorest than to plod through a volume of Hume becnuse we feel it is our duty to do so.
Those people gain little profit from books who are continually asking, what shall I read. If we have a healthy montal appotite, we shall be sure to find in these days enough nutritious montal food. Wo shall learn to be more solect, and to discrinimate in due tume. At the dedication of a library $m$ his native city, the gallant General Bartlett related the incident of a ragged atreet Arab, who cropt into the Boston public library and asked for a dime nuvel; the same boy reappeated, a fow years later, and asked fur his uwn use for a mare edition of Shakespeare which the hibrary did nut contain.
It is no matter if your intellectual capital is scanty. The ablest students of books have begun on tho scantiest capital. Webstor know Popo's "Essay on Man" by heart, for it was his only book while at work m a saw-mill one winter. "I used to smugglea copy of Shakespeare into my pockot when I went to the fiolds at work, and read it at stolen intervals," says John $G$ Whittior.
In reading, as in everything olso, wo should bo guided by certain general princuples. They should be fow and smmple. The next thing is to apply there painciples in our daily reading. With a little friendly help and encouragement, it is not at all a difficult matter. The ama and the wall are the man things, without them our crowded library shelves are but rubbish, and the suggestions of wise men fall upon deaf ears. Allow me to suggest, in the briefest manner, a fow general principles, which, if faithfully and systomatically apphod in our readug, cannot but help us to lay a foundation, deep and strong, for the atudies of coming years.

1. Read the ordiuary courks of common reference aud quotution.

Only such as overy intelligent person should read, at least once m his lifetme. It is a kind of duty as woll as a pleasure. These buoks are to be read as uppurtunity affurds ur as a recreation. Sc. lect only a fow and tho best. For examplo: "Fsoop's Fablos,". "Robinson Crusue," "Gulliver's Travels," " Pilgrim's Progress," "Vicar of Wakefield "and a fens of the widely hnuwn and pupular fairy and nursery tales.
2. Kead and consult afero standard worhs fur general purpuses.

That 2s, for genoral and useful infurmativn- to accumulate a resorve fund of knowledge frum which to draw fur pleasure ur profit, as occasion demands. This should include the common works of roferonce, as the standard dictionaries, cyclupedias, gazetteers, periodicale, ect. Learn hory to use and consult these and other - works to which you have access. It is an art in itself to know huw to use, without loss of time, and effort, works of reference. If you have not already learned this art, get some intelligent payon to show you. This principle includes the reading of the most noteworthy topics of current disoussion. For instance, a ferv simple facts about the electric light, Russian Nihilism, the Irish Question, Oivil Sorvice Reform and other subjects. In ohert, read sparingly, and keep well posted on the live topics of the day.
3. Read and consult a few works for special purposes.

That is, rend and consult works which help to perfoct you in your special occupation. A mariner should study hi: harts and books on navigation and ocean currents: a carpenter, the latest and best
on his trade, aud the musician, the best modols in music. Whatovor your businoss, improve yoursolf in it by a systomatic and faithful study of its best litorature. If you are a student, the study of certain text-books is your daily occupation. Your teachor will guide you to your best holpors. If you are a machinist, bank clerk, jewollor, carpontor, or cotton spinner, some one older and wisor than yourself will only bo to glad to toll you what to atudy first to perfect yourself in your special work. Got once started and no more holp is necossary. Nowadays books and poriodicals are published on overy line of industry. They are just as much tools for us to work with as if they were made of steel or wood.
4. Read a few books for inspiration.

That is, books to inspiro you to do better things. Call them favorite boukg, if you please. All of us occaisonally aro tired of our daily routine. We got down-hearted, wearied and discourage'. At times, everything looks "blue." We need then the inspiration of cortain books to oncourage, cheer and sustain us. What are they? As no two of us are alike, so no two need the same kind of help. In fact, the same person feels the need of different books under diffurent circumstances. It nay be one of Whittiers's poems, Irving's "Sketch Book," Mrs. Whitney's "Hitherto," "David Copperfield," one of Plutarch's "Lives" or Grimm's fairy talos. It matters little, if we get help, strength and courage, that is onough. It would be as useless to try and make out a list of such books as it would be to dictate what pattern of a new dress or coat to buy.
Let me simply suggest that the six following books aro partictlarly suggestivo and full of inspiration to youn : men: "Character," "Solf-Help," and "Duty" by Samuel Smiles; "Solf-Culture" by James Freoman Clarko; "Getting on in tho World" by William Matthews, and "On the Threshold" by T. T. Munger. It will richly repay every yuung man to read and re-read these six books. They are full of practical help and wise suggestions. Besides these bouks and the writings of some favurite poet, young women will find a deal of inspiration in Miss Alcott's "Little Women." Mrs. Whitney's "Hitherto" and Mrs. Guodwin's "Madge " and "Sherbrooke." Here is the point : Have at hand for every day use one or more books which will make you stronger and bettor.
5. Read books fur a special stuly of some one thing, i. e., read for a hobby.
What is meant by hobby reading? Lot me explain. The need of a hobby is a natural result of our daily living. Most people are bound down to unremitting monotonous work.
Rest of some kind a busy man must have and will surely take, if he properly understands the value of a sound mind in a sound body. Men of talent, genius and industry, thus wisely recognizing the urgent need of some kind of a change, and having learned from past experionce the fully of an indiscrimisate indulgence in the many frivclous amusements and pupular recreations of the day, naturally drift into some special line of work videly different from their daily business. In other words, they seek for a hobby which, steadfastly pursued, furnishes them with the long looked for relaxation and congenial occupation.
Aside from the relaxation of the mental and physical tension which a hobby affords, it must of nocessity, if judiciously chosen and wisely pursued, contribute to montal and physical improvement. The reason for this is plain. It gives a man somothing to think of, over and above fagging work. He has less temptation to worry and frot over real or fancied treubles. A contented and hopeful mind, busily occapied, contributes in no slight measure to sound physical health. To this ond, a hobby, undor proper conditions, answers a most useful purpoges.
The objection is sometimes that a hobby must detract from faithfulnoss or skill in mork or trade, No more so than any other
change or rocreation. A bankor likn Rohart Diek, a recngnized authority on botany ; a enbbler like Robert Edmard, the great Scotch naturalist ; Stedman, the poet banker ; Trollope, tho postoffice clork and novelist : the Lnuisville mechanie, the author of a standard work on ferns : a enuntry sinnelealer in Vermont, a warld wide authority on American lichens. All these nnd hundreds of other hard-working men and women in every calling of life it is not to be supposed neglected their business becauso thoy choso to spond - their spare moments on a hobby rather than in frivolous or questionable recreations.

The pursuit oi a particular line of work mitst pruve of inestimablo value to young penple of both sexes. They have an advantage in that they may grow into a hobby, and not select it arbitrarily in maturer years. If such a hobby is intimately allied with their future vocation, so much the better. The young druggist would naturally cleave to chemistry, while the importer's clerk would naturally strive for proficiency in book-keeping or the muderndanguages. The one grest error so often made by young people, and old ones too, oftentimes, is the lack of concentration on some particular line of work or study. The idea is to select the specialty best suited to our needs or tastes-and stick to it.

The vast fields of science and literature are open to all. The humblest may do good to himself and others if ho is content to select some remote corner, which abler men have left untilled, and diligently work for a harvest, sure and plentcous. The common excuse is lack of time. But the must diligent have sume leisure; at least they make it where idlers have nune. "He hath no leisure, says a quaint divine, "who useth at aut." Diligent an the pursurt of a hinhy, the man of riches of of purerty may find recreation, health and $y^{\prime r}$ fit and reputativen, and das, tuo, wath hattie riak of exhausting himself, either menthily or physinully.

To sum up in a few wurds. Du nut read accurdang tu any formal printed enurse. Let your readiag beciono a natural wutgrowth of your own needs. Advice at least is merely suggestive. Strive to get a healthy montal appetite fus useful buohs. Never read at haphazard. Always have a particular ubject in using books as you would any other tools. Learn the art of thus using books without logs of time or effort. Always keep in mind that only a very for hanks are to be read thruaghia regular urder, Father read by trpies Select sume opeciad i.tuo of study, i. en, a hobby, and stick tn it Remember it is fuel tho sumbur of bouks we read so much as houe we utilize them. Bo suided by a fer sample prencipies Which shall be systematicully applical tw your danly reading.

Evar before us as ne read alwuld stand the murds. "Arond Kub. bish."

## OPINIONS OF EDCCATORS ON CORPORAL PUNISHMLENT.*

"This kind of punishment, provided always that it is not too often administered, or with undue severity, is the proper way of dealing with willful defiance, with obstmate carelessness, or with a really perverted will, so long or so often as the higher perception is closed against appeal, "-Rozenkranz (2и Pedagogies as a System).
"I believe that corporal punishment should always bo resorted to as soon as uther mudes of discipline fayl, anc. I havo known some young persons whose consciences were so.weak, and who had so much of the animal in them, that the rod would be for them the most beneficial mode of punishment."-Mrrs. Emma Willard.
"The parent's will is the only law to the child; yet, boing steadily regulated by parontal affection, is probably more moderato,

[^1]equitablo, and ploasing to him than any othor human government to any othor subject. It resumbles the Divino government more than any othor. Correction, which is somotimes considored the whole of govarnment, is usually the least part of it; a part indespensable, indeed, and sumetimes efticacluus, when all othors have failed."
-Dr. Divight.
" The great objection to corporal punishment is the fact that it oxcites angry passions, not only in the child, but in the mastor, and more in the latter than in the former. My own experionce teachos mo that the offect is alinost necessarily bad on the individual who inflicts tho pain. It excites a horrible pan in him, -a feeling which we might concoive to bolung to evil spirits."

- Gcorge B. Emerson, LL.D.
"I do not hesitate to teach that corporal infliction is one of the justifiable means of establishing authority in the school-room. mo this conclusion I have come after a caroful consideration of the subject, modatied by the varied experience of nearly twenty years, and by a somowhat attontive observation of all the plans which have been devised to avnid its uso, or supply its place."-David P. Page.
"It is necossary for a child to loarn that the violation of law, whether of school, society, or of God, brings inevitable sufforing. The sense of right is so imperfectly developed in children, that one of the ways of impressing upon a child that right is right, and wrong is wrong, is by showing that suffering follows from one, enjoyment and a sense of satisfaction from tho other."
-An English Teacher (in Ed. Reporter).
"Punishment should néver bo inflicted except in cases of the extremest necessity; while the experiment of sympathy, contidence, persuasinns, encouragement, should be repeated fu ovor and ever."
"He who denies the necessity of resorting to punishment in our schonls, virtually affirms two things: (1) That this great number of children scraped up from all places, taken'at all ages and in all conditions, can bo deterred from the wrong. and attracted to the right, withnut punishment; and (2), that the teachers employed to keep their respective schools are, in the present condition of things, able to accomplish so glorious a work. Neither of these propogitions am I at present prepared to admit." Hon. Horace Mfann.
"It is not wise for schoul cummittees and auperintendents to formally and pullicly furbid the ase of corpural punishment in the public schocls. ( $I_{\text {; }}$ 'Such an act uli' the past of schoul authoritiea would have a tendency to cucuurage sume pupils to violate schoul rules. (2) During that periud if a child's life when he is deriving all his knuwledge thruugh the senses, it may sumetimes be necessary to teach him the beauty of guodness by a slight punishment applied to his mind through the body. In such a case the amount of punishment would be su small as not to attract public attention. While these things may be true, it is also true that a teacher possessing the qualities requisite to success in teaching will be able, and inclined, to control his pupils by appealing to a higher principle of action than the fear of physical punishment."


## -Hon. F. W. Dichinson.

"I have no nesitation in declaring my opinion that in some. schools, under some circumstances, and with some pupils, the infliction of corporal punishment is needful and wise. The uge of it in some cases is no more brutal than is the knife in the hands of a skillful surgeon. The rod in the hands of a wise teacher is less painful in its effects than are the bitter words of some teachers who boast that thoy nevor resort to the rod. My doctrine is, in briof, this - let teachors secure, as far as póssible, the respect and love. of their E pils; let them make their school-rooms places of happy resort ; let them govern their, schools with kindly means; yet, if at any time they find there is forced upon them the alternative, utter
faluro in guverning a beholar or the use of the rod, I unhesitatingly say, let the rod bo ured. As an ordinary means of punishment, I oarncstly doprecate a rosort to corporal punishmont, and I beliove that the toachor who punishosin this way frequontly may woll question his fitiess for the position he occupies."-D. B. Hayar, Ph.D.
"There aro occasions, however, in which the cano must bo resorted to. Wo have no sympathy with objections to flogging on the score of its ariolty or indigiity, provided an interval elapse botwoen the offonce and the chastisoment. It is much more morciful to custigate a boy than to wear his nerves to exhaustion by appoals to sentimont, affection, or duty, which ministor to the vanity of the lard, and the morbidness of the gontlo and sensitive. Punishment should be prompt, sharp, decisive, and there ond; the object being not to infict pain, but to detor from future offencos, nnd to restore the moral equilibrium of the offendor and tho offended sehọolconscience. Tris object onco attained,-tho more expeditiously it is attained the better, -no more should be heard from eithor offence or punishment. A teacher or paront should never bear grudges. Tho yourg interprot such exhibitions as sulkiness and injustice, and do not fail to learn tho lesson for themselves. A boy should be allowed to start fresh from punishment, and without stain:
-Prof. S. S. Laurie, Enyland.

## THE OVERWORK QUESTION.*

Herbort Spencer's criticisms upon the overwork of tle American people have called forth a volume of dissent from sevoral of his own countrymen, whose obsorvations in America are much whder than Mr. Spencer's could possibly be, as also from the American press. This old-tume and somewhat stale charge 18 meeting a much sounder discussion.than was formerly given' to 1 t. It is an mstructive illustration of the maxim, "Catch your hare before you cook it ;" be sure of your fact before you offer to explayn it. Before it can be established as a fact that Americans, as a people, ovorwork; it must be settled what is over-work. Is it a question of the tume spent in labor ? Americun mechanics and common laborers work usually ton hours a day, with frequent days off, and holddays. Our merchants and business neen work fromis six to eight hours, with frequent. lulls in cradejand long annual vacations. Our lawyers and physicians. and uther professional men work accurding to their pupularity and. tho dumands made upun them. Many? duubtless, work mure hours than they ought ; but.we suspect that the great majunty would be. glad to fill up with buseness many of the ade huurs they now have. Our teachers are eanploged from tou to sis hours a day with the work of instruction, and give as much time to study as they find convenient. Many of our vomen, doubtless, work móre hours than are good for them; but in the middle and higher walks of life thoy havo as much leisure as they choose to take.
If intensity of work is meant, it is probably true that the Americans work with more onergy and rapidity than Europeans of the same classes. It is asserted that American mechanics accompliṣh more in the same time than Europouns, owing partly to their superior intelligence, and partly to the greater energy and spirit with which thoy work. American business men are also somewhat famous for their pushing enterprise, due, doultleess, to the greator opportunities offered by tho conditions of the country, and the greater prizes for succeasful offorts. But intousity in work is largely a question of temperament, and it is possible that our drier climate niay favor a more aotive temperament than that of England, or the continent of Europe. We incline to the beliof that Americans work with more $v$ Gor when they work at all; the slow, sluggish movements, the work without heart and without hope; so often seen among: the

- Joth 3. Gregory'; LLLD., In the Chlcago Preseit Age.

Wurking classens of Europo, beom infinituly dull and tiresome to tho average American. Ho dosires to soo his task finishod and get the good of it.
If brain work is meant, thon it is still more difficult'to find tho truth. Tho human mind, and presumably tho hrain, is in porpotual action at lenst during tho waking hours. And this action is as intonse in the hours of recreation as in those of study or labor. Nor doos the haalthy brain ever have tho gensd of weariness so common to the muscular system. A "tired mind" is a thing unknown. What is called mental weariness will always be found on caroful inquiry to be a physical sonsation. It is those mental employmonts which nocessitate long confinorent of tho body to one position, and shut out the free air, which produce what is called weariness of mind: The merchant who sits ovor his boolss three or four hours rises weary and exhausted; but iot him spen 1 the same time on his feot ongaged with the most ongrossing business, moving from ' place to place in tho fresh air, and he may complain of bodily wearinoss, but never of a tired inind.
The truth is that what is called montal over-work is over-confinoment and bad air. - Children do not die of too much study, but of too long sitting and of ill-ventilated schcol-rooms. Put the same children among thoir fellows on the play-grounds or in the fiolde, and they will keep tongue and brain busy all the day, year in and yerr out, without the loss of a particle of vigor or of fresh color. Whenevor, in ordor to think or atudy, we deprive ourselves of bodily exercise, and shut ourselves up in close and unventilated rooms, we suffer not from over action of the mind, but from inaction of the buly, and from that usygen starvation which steals mure lives than all other causes pat together. The mental workor is alsu liable to interfere with his bodily health, by injury to the digestive functions. He fails in the esercise necessary to healthful digestion, and draws blood to the brain which is needed by the stomach. The cummon curse of the man of sedentary pursuits is the dyapepsia.

Over-work must bo work which tasks the puwers beyond their ability to repair lusses. So long as the system recuperates perfectly after each effort there is no over-wurk. In the growing period, the recuperation must be something more than repair; it must include the growth in addition. And shen it is reflected that Wurh, uf at least wisurums exercise, is and indisytisable cundition of all healthful growth, and of perfected strength, we shall find reason to lelieve that mure Americans suffer frum under wurk than from excessife osertiun. Mang of the slender furms and pale faces aruund us wuld grivi rugged and ruddy if in place of the lives of lazy inaction, which so weakens them, there should come lives of vigorous and hearty work.

## NO "OASE" IN ENGLISH.

We now proposo to prove that there is no property of the English noun that can, with any propriety whateyer, be called "case." Out of something over a hundred gramiars, we make the following oxtracts from which it will be seen thit the "authorities" are by no means unted m their opinion as to what "caso" is. Fhanswer to the question; What is case 3 we are told:
 The word means onding.-Boltwood, p. 101.
It is the rolation of a noun or pronoun to other words.-Harveg, p. 31 ;-Kierl's Comp., page 144 : Barton, p. 20.

It is the state or condition of a noun with respect to the other words in a sentence.-Bullion, p. 39.
It is that property of a noun that denotes its rolation to uther words.-Pịnneo; p. 35 ; Raub, p. 40.

It is that property of the uoun which depends upon its relation to other words. -Chandler, p. 14.
It is that modification of nuuns and pronuans andicated by thenr relation to other words. -Clark's Murm, 1 . $8 \mathbf{0}$.

It is that modification which distinguishes the rolation of nuuns and pronouns to other words. - Bruwn, 1. 52, Burtt, $\boldsymbol{y}$. 75.

By the Case of a noun is meant the relativn in which it atands to other words, and to the sentence. - Bultwoud, p. 101.

It is that property of nounsi and pronuuns which shows how thoy are used in the construction of sentehwes. - Kerl's Cummon School, p. 95.

The simple word and suflix are tugether called a case. -Swinton, p. 34.

It is the cundition of a noun (1. e., relation to other words). Clark's Begin., p. 74.

The case of a noun or pronoun depends upon its relation to other words. - Vickroy ( 1870 ), p. 69.

Case is form, not relation; nevertheless, the form is determined by the relation. - Vichruy, 2d Circle, p. 48 (1881).
Case denutes the relation of a noun or pronoun to other words. -Greene, p. 53 ; Welle, p. 47. (1865).
Case is relation, etc. - Wells, p. 42 (1880).
It is that property which distingushes the relation of nouns and pronwuns tu other wurds in a sentence.-Quackenbos, p. 51.
It is a distinction based on the relation, etc.-Kerl's Shorter Course, p. 85.
It signifies the relation which nouns have to other words. - But ler, p. 28.

It means the different state, situation, or position nouns have in relation to uther words.-Kirkham, p. 41.

It denotes the relation which a noun sustains to other words in the sentence, expressed sumetimes by its termination and sometimes by its position. -Fowler, p. 26.

Cases are furms of murds used on account of the relations the words huld to uther wurds.-Hinds' Topics, p. 43.
In some languages the furm of nouns and pronouns determines their case. Not so in English. All nouns have the same forms. Clarli's Begin. p. 76.

Case is a mode of inflection used to show the relation of a word to another word.-Colegrove, p. 84.
I deem the essential qualities of case in English to consist, net in the changes and inflections produced on nouns and pronouns, but in the offices which they perform in asentence, by assuming different positions in regard to other words. In accordance with this definition these cases can be casily explained on reasoning principles founded in the nature of things.-Kirkham, p. 41.

Casu [is] the form of substances in English, by which their relations to the other parts of the sentence are indicated. Webster's Dictionary.

The use which is made of a noun or the office which a noun has in the construction of a sentence, is called the case of a noun.Cruttendien, p. 15\%.
Caso is a rhetorical attribute, which the noun derives from its use or offico in the sentence.-Cruttenden, p. 200.

It is a change in the termination or sitiration of nouns.-Long, p. 12.

In the Latin, Greck, German and many otiser languages, the cases of nouns are determined by their termmations. But, as English nouns have no inflections, execpt to form adjuncts, tho cases are determined only by the offices of nouns in sentences.-Clark's Normal, p. 85.

Case means little more than uso in cunnectiva $\begin{gathered}\text { bith other words. }\end{gathered}$ Abbott, How to Parse, p. 29.

The word case properly means onding, and was introduced into pur language from a language in which different relations are indicated by daferent endengs. There is no necessity for retaining it whed speaking of noums.
Those whio use the name of case for the relations call the subject the nommative case; the object of a verb, or the subsequent of a prepusition, the objective caso ; and a noun in the possessive relation, the pussessire case, calling all other relations the independent caso. But it as better to drop the term "case" in analyaing, and to speak of a noun as subject, object, subsequent, possessive, or as absolute, that is without grammatical relation. - Boltwood, p. 101.

Now, from the foregeing quotations, we see that there er its among our grammarians a very great diversity of opinion as to what case in English is. Some tell us thiat case is "relation;" somo, that it is a "property that denotes relation;" some, a "proporty that depends upon relation ;" some a "modification indicated by relation;" some, a " modification which distinguishes relation;" some, a distinction based upon relation;" somo that it is "state or condition ;" some that it is "form :" some that it is "ending ;" some that it is the "use or office-work" of a noun or pronoun; some, that it is "a rhetorical attribute" which the noun derives from its "use or office-rork ;" some that it is "position or situation;" and some "that there is no necessity of retaining it, because the Eng. lish noun is without grammatical relation!"

Says Mr. Kirkham: "I think that five grains of common sense will enable any one to comprehend what is meant by case. Its real character is extremely simple; but in the different grammars it assumes as many meanings as Proteus had shapes. The most that has been written on it, however, is mere verbiage. What, then is meant by case ? . . . It is position or situation. This is clear."

Surely amid such a varioty of viands, the grammatical epicure ought to be able to find something that will satisfy his palate!

Now, the ioregoing different views, as well as eeveral minor shades of opinion, are offered us by as many different authorities. If we adopt any one of them we shall be at variance mith many of the others, while if we adopt the view of one particular authorityMr. Boltrood-we shall thror case out of English grammar entire. ly. "When doctors differ," etc.
If we now examine some of these authors separately, we shall sce how consistent axch grammarian is with himself.

Harvey says: "Caso is the relation of a noun or pronoun to other words." He also says, "The Absolute case is the use of a noun independent of anygorerning pord."

Now, how ean a noun that is used independently be said to sustain any grammatical relation to any other nord? Or, if it possesses any relation, must it not be an independent relation? And what lind of a relation is an independent relation? What kind of a dependence is an independent depondence? Again, if caso is the relation of a noun to some other word, would it not follow that a noun which his no such relation can havo no case? And why does it not follow that Mr. Harrey's "Absolute" case is, according to his own definition, no case at all? It seems to us rather a difficult caso! Noreover, on pp. 32 and 108, he gives us the "Objoctive case without a governing nord."

Nort the noun in cach of these conditions -" absolute". and "ob-jeciire"-is employed only to namo objects, and in cach instance, is used " without a governung word." What then, in thess instances, is the radical difforenco betrieen Mr. Harroy's "cobjectivo" aud his "absolute" caso? Both are without government, and, thorefore, indopendont. Wo might present our argument thus:
It takes rclation to malio case.
Nouns independent of gorernment haro no relation.
Ergo, Nouns independent of government have no case.

What Mr. Harroy calls the "absolute" case, Mr. Raub calls the "Nominativo Caso Independont," and says: "A noun is in the Nomenative Caso Independent when it is independent of any othor word is the sentence."-Raub. p. 42.
Mr. Bulhons uses the torm "Nominative Absplute," and un p. 213 says: "A aubstantive whose case depends on nu uther word is put in the Nommative Absolute or Independent, because, though always in the form of the nominative, yet it has no grammatical dependence on any word in the sentence." Also, on p. 40, he says: "Words not in relation can, strictly spealing, have no case."
Hers is a plain acknowledgoment of the very conclusion which we just reached, riz., that words not in relation, i.e., used indo-pendently-without government-can have no case. And hundreds of other English grammarians have virtually acknowledged as much. But why do these gentlemen retain the term "case" in such instances? Mr. Bullions makes aimwer for the whole corps by saying that "for convenience in referring to them, this distinction is, in some instances, retained!"

I- such extremities as this are our grammarians pushed in their endeavors to bolster up their tottering system! Rotaining a thing that does not exist for convienence' sabe!

But, furthermore, there are some uther authorities who substantially agree with M. Harvey in his definition of the case, but who present their statement in different diction, and tell us that "case is the relation which a noun or pronoun sustains to other words in a sentence." This statement is substantially given by Quackenbos, Fowler, Korl, Barton, Smith, etc. Kirkham and Cruttenden icll us that "the case of a noun or pronoun. is its use or office-work in a sentence." It will be noticed that Mr. Harvoy, in his definition of case does not use the words, "in a sentence," though wo presume that ho intended to imply as much.

Now, the point wo wish to make is that these gentlemen tell us that case is the relation of a noun or pronoun to some other word in a sentence, and not out of a sentence: i.e., a noun can have caso only when it is used in a sentence. It will, therefore, follow that out of a sentence, a noun can have no case. But in the expression, "Going down hill into the rivar" (which expression is not a sentenco), every grammarian in Christendom would tell us that the words, "hill" and "criver," are in tho Objectivo case, after the prepositions, "dorin" and "into," respectively. So that, after teaching that "case" can not exist outside a sentence, these gentlemon would flatly contradict themselves by teaching that "case" does exist outside a sentenco!

But, to give theso grammarians a "boost" in their trouble, we will permit them to "amend," and to say: "Case is the relation of a noun to other words in a sentence, or phrase." That is, it takes.relation to some other toord to constitute case, and words not usod in somo sentanco (or phrase) sustain no such relation-are used independently-and, therefore, have no casc. If, for example, we tako the word, "John," and ask theso grammarians what caso it is in, thoy will say that it is in no caso at all, that it nust be put into some sentence or phrase, end then it will have case. And yet theso same grammarians persust, with an unyielding tenacity, in pressing upon us their "Absolute," "Independent," "Nominative Absoluto," or "Nominative Indopendent" cise, admitting at the samo time that thie words for which thoy thus claim theso caso names do not bolong to any sentence or phase, and, therefore, according to their own dofinitions, have no caso!

The syllogistic form of our argument would run thus:
Caso is tho relation of a noun to some other ford in a sentence (or phraso).

Nouns not in a sentence (or phraso) sustain no such rolation.
Ergo, Nouns not in a sentence (or phraso) have jo case.

Casc-and yot $n 0$ caso; $n 0$ caso-and yot case !
Why invent $q$,uame for a case when no such thing as caso oxists 3 Why invent a name for a relation when no relation exists? $O r$ is it an independent-a negative relation? What sense is there in such twaddle: Where can there bo found except in English grammars - buch a jumbled up mass of contradictions and absurdities!.
This much respecting those grammarians who tell us that caso is "relation." There are others who tell us that caso is "state or covulitivu." If by these terms is meant something different from what others mean by "rehation," then we are unable to comprehend just exactly what these writers do really mean. But if by "state or condition" is meant "relation," then thesa "state-orcondition" men are in the same boat with the "relation" men.

Messrs. Brown, Burtt \& Co. tell us, on the other hand, that caso is the "modification" of a noun that "distinguishes" its rolation to other words.
Now, what these gentlemen mean by "modification," we confess our inability to understand. If by "moditication" is meant "relation," then wo have case defined to be "that relation which distinguzeies relation"- a very clear thought, indeed! If by "modification" is meant "stateor condition," then we must go a little further, and beg to be informed what is meant by "state or condition." If by "modification" is meant "ending" or "terminatiun, then we can not see how those grammarians who adopt this definition, can make out more than tico (2) cases at the most; for, tho so-called Nominative and Objective havo but one and the same euding, and the su-called Pussessire must furnish the other ending. Yet, Mr. Brown gives us three cases, and Mr. Burtt four.
In closing, we again call attention to the motloy mass of uneiplained and contlicting viems of case herein presented. Mir. Kirkham there tells us that "five grains of common st ase will enable any one to comprehend what is meant by case." As we have only four grains, we shall have to take a back seat. We think, however, that MI. Kirkham gives utterance to one indisputable truth, when, speaking of case, he sasyo. "In the different grammars it assumes as many meanings as Proteus had shapes! "-Iconoclest in Pittsburgh Educational Revieno.

## Examimation (Questions.

## SPECIAL INTERMEDIATE EXAMINATION.

## December, 1882.

## ENGIISH GRAMIMAR.

## This-Three Hours.

1. Strong Son of God, immortal Lore,

Whom we, that havo not seen thy face, By faith, and faith alone embrace, Believing where to cannot peove;
Thine are these orbs of light and shade; Thou madest life in man and brute; Thau madest Death; and lo, thy foot
Is on the skull which thou hast made.
(a) Analyza the wholo passsge fully.
(b) Parse the words in italics.
(c) Write out the whole passago in prose, so as to show that you thoroughly understand the meaning. - [ Note-The second, value is for tho litorary form of the answer. I
(d) Explain the allusions in line 5 , and in the last tro lines.
(c) Dorive faith, ambruce, prove, orbs, bruic.
(f) In what respect is tho rhyme of lines 6 and 7 faulty?
2. Correct any crrors in tho following sentences, giving your reasons for oach correctión:-
(2) The Tclegraph might cortainly have boon oxpected to havo uutgrown the iden that either of the great American parties acknowledge hostility to England as its ruling princıpal.
(ii) The more British Columbia becomes known, the more oxtraordinary appears its wonderful resources.
(iii). The Northern and North-Western Railway lave issued a new time table.
(iv) Whilo the plaintifi was being examined, his gister, who was setting in the court-room, fell screaming to the floor, laying there insonsible for some minutes.
(v) A fathor, as well as his son, wero terribly injured by the explosion of a waggon-load of gunpowder near Jackass Mountain, which they were conveying to the railway works.
(xi) Addison contributed to the last volume of the 'Spectator'24 numbers, many of them being the finest of his essays.
(eii.) If the privileges to which he has an undoubted right, and has so long onjoyed, should now bo wrested from him, would be flagrant injustice.
(riii) I shall live hereafter suitable to my station.
(ix ) I should be obliged to him, if he would gratify me in this matter.
(x.) This wheel will not turn ; I must send it to the wheelmright to bo fixed.
(xi.) Who learned you to fall trees so good?
(xii) Those men who have not abandoned ther hardly accquired knorrledge, are anxious to do something to show that their devotion to letters are genuine.
(riii) Etymnlngically, 'pulitics' mean the suience uf citizunshp.
(xir) Is it not a plain hint to ws that where denominational colleges are compelled to make stmng appeals fur assistance, that we will have to make vigorous efforts for to secure further aid?
3. Distinguish between ingentous and ingenwou, giving the abstract substantive formed from cach of these adjectives; also be: treen contemptuous aud contemptible, sirrey and survey; disert, desirt and dessert; cinjure and conjure.
4. Accentuate--theatre, catastrophc, comlolence, precedent, accessory.
5. Spell phonetically-sultile, iromnorger, gauge, constable, sergeant.
6. Give the full etymology of the following words:-trespass, journey, lord, veal, vordict, kerchief, feat, savage, hotel, pilgtim.
7. Give fire rords of Greek origin (not ending in -ology).
8. Give fivo derivatives of each of thè following Latin words:capio, fero, gradus, loquor, ceeao, cado.
9. Give three instances of double plurals in English substantives, with the meaning of each form; and three of nouns plural in form and singular in signification.

10, Complete the elliptical clauses in the following sentences:-
(i.) I had rather die than endure such a disgrace.
(ii.) Ho is better to-day than yesterday.
(iii.) Jd rather be a dog and bay the moon, Than such a Ruman.
11. Panctuate the following sentence:-While wo carnestly desire said he the approbation of our fellow men and this desire the better feclings of our nature cannot fail to araken we should shrink from gaining it by dishonourable means.

Values:-1 (a) 16, (b) 6 , (c) $9+4$, (d) 4 , (c) 5 , (f) 1 ; 2 (i) $4_{1}$ (ii) 2 , (iii) 4 , (iv) 6, (v) 4 , (ri) 2 , (vii) 2 , (viii) 2 , (ix) 2, (x) 2, (xi) $6,(x i i) 2$, (xiii) $2,(x i v) 6 ; 3,13 ; 4,5 ; 5,5 ; 0,10 ; 7,5 ; 8,30 ; 0,6 ; 10$ (i) 2, (ii) 2, (iii) 4 ; 11, 7 .

## ENGLISH LITERATURE.

Thme-Two Hocrs ast a Quarter.
The value for each question, undar the heading M., is for the matter of the answer; the additional ralue, under F., is for its litcraryfofm.

## I.-Goldsymti's Deserted Village.

1. Beside yon straggling fenco that skirts the way,

With blossomed furze unprofitably gay,
There, in his noisy mansion, skilled to rule,
The village master taught his little school;
A man serere ho was, and stern to view,
Iknow him rell, and evcry truant knew;
Well had the hoding tromblors leanned to trace
The day's disasters in his morning face.
(a) Explain: unproftably gay; and the last two lincs.
(b) blossom'd. How is the past part, hore used 3 Substitute the more usual form.
(c) Parso skilld, in the 3rd line, and show how the position of the words in this and in the oth line causes ambiguity.
(d) Parse riev, in the Eth line.
2. Quote the first ton lines of the address to Poetry at the end of the poen.
3. What are the chief characteristics of Goldsmith's poetry? Namo his chief poetical and dramatic works.
4. "Trade's unfeeling train

Usurp the land, and dispossess the swain."
Why is the verb plural?
II.-Cowren's Task. Bk. III.

1. All flesh is grass, and all its glory fades Like the fair flow'r dishevelled in the wind, Riches have wings, and grandeur is a dream, Tho man we celebrate must find a tomb, And we that worship him, ignoble graves.
Nothing is proof against the gen'ral curso
Uf vanity, that seizes all below.
The only amaranthine flow'r on earth
Is virtue, th' only lasting treasure, truth.
(u) Parse graces, all below, truth, and fill up the ellipsis in each: case.
(b) Give the meaning and durivation of disherell d, gen ral, ranit $f_{\text {, a maranthine, treasurc. }}$
(r) Explain fully the meaning of the passage from "The man wo celebrate" to "virtuc."
2. Explain the italicised words in the following:passages, and state in what connection they occur:-
(i.) In whom

Our British Themis gloried with just cause, Immorial Hille!
(ii.)

Hideous nurseries of the spleen.
(iii.) Like a gross fog Bootian.
(iv.) They form one social shade, as if convened By magic summons of th' Orphean lyre.

## 3. Sketch briefly the life and character of Cowper.

## III.-Admison's Sir Roger de Coverney.

1. After haring despatched all our country matters, Sir Roger made several inquiries concerning the club, and particularly of his old antagonist, Sir Andres Freeport. He asked me, with a kind smile, whether Sir Androw had not takes the adrantage of his absence to vent among them some of his ropublican doctrines, but soon after, gathering up his countenance into a more than ordinary seriousness, 'Tell me truly', says he, 'don't you think Sir Andrew had a hand in the Popes procession?' But without giving me time to answer him, 'Well, well,' says he, 'I know you are a wary man, and do not care to talk of pablic matcers.'
(a) Pa-Jn the words in italics.
(b) What is meant by the "Pope's procession ?" In what yoar did the particular procession hero referred to occur, and what ras tho cause of the greater prominence given to the custom in that year?
2. Sketch the principal characters of the Spectator Club, besides Mr. Spectator and Sir Roger.
3. (a) Give an outline of the history of nemspapers in England, down to the appearanco of the Spectator, and show how this and its immediate predecessor differed from the nowspaper of that day-
(b) Mention Addison's principal collaborator in the Spectator, and give some account of him.
Valucs:-1 (a) M4, F2, (b) M2, (c) M 3, (d) M1 2 ; $2 \mathrm{M} 5 ; 3 \mathrm{M}$

 F2;2M6,F2;8(a) ML4,F2, (b) ME4,F2.

## GEOGRAPHY.

TME-TTNO HOURs.

1. In what countries are the sources and mouths of tho Elbo; tho Mouse, the Dnuro, the Rhine, the Rhone, the Brahmapootra, the I Yukon, the Columbia, the Colorado, the Amazons, the Vistula, and the Niomen.
2. Stato in detail what you would expect to see if you mado a coast voyage around the Mediterrancan.
3. Draw a rough map of the British Isles, marking the courses of the Thames, the Severn, the Trent, the Tyne, the Tweed tho Clyde, the Shannon, and the Tay, and the positions of Belfast, Dublin, York, Coris, Glasgow, Abordeen, Dundee, Edinturgh, Livervool, Manchester, Bristol, London, and Birminghan, and of the smaller ialands.
4. Compare the physical charactoristics of Africa and South Americi.
Values :-1, $24 ; 2,28 ; 3,28 ; 4,20$.

## DICTATION.

Time-Timaty Minutes.
Note to the Presiding. Examiner.-This paper is not to be seen by, the candidates. It is to be read to them three times-first, at the urdinary rate of reading, they simply paying attention, to catch the drift of the passage; second, slowly, the candidates writing ; third, for reviow.
A sudden irruption into Belgium, as it was more suited to tho daring genius of Napoleon; and better calculated to eucourage the ardour of his troops, afforded him also a more reasonable prospect? of success. He might by a rapid movement, direct his thole force against thearmy either of England or of Prussia, before its strength could be concentrated and united to that of its ally. Ho might thus defeat his foes in detail, as he had done upon similar occasions, with the imp irtant certainty, that one great and splendid victory would enabl. him to accomplish a general levy, and thus bring to the field alp ost every manin France capable of bearing arms; an advantage which would infinitely more than compensate any loss of lives Frich might be sustained in effecting it. Such an adrantage, and the imposing attitude which he would bo thereby entitled to: assume towards the allies, might have affected the vory elements upon which the coalition was founded; and afforded to Bonaparte time, means, and opportunity, of intimidating the weak and seducing the stronger members of the confederacy.

## COMPOSITION.

Time-One Hour and a Quabter.

## I.

Write out the sense of the following poem in good prose, in your own words:-

O, Maid of Isla, from the cliff, That looks on troubled wave and sky, Dost thou not seeg yon little skiff Contond with ocean gallantly?
Now beating 'gainst the breeze and surge, And ateeped her leemard deck in foam,
Why does she war unequal urge? O, Isla's maid, she seeks her home.

O, Isla's maid, ycn sea-bird mark, Her whito wing gleams through mist and spray Against the storm-cloud, lowering dark, As to the rook she wheels awsy?
Whers clouds are.dark and billows rave, Why' to the shelter should sho come
Of cliff, exposed to mind and rave?O, maid of Isla, 'tis her home.

As breezo.and tido to yonder skiff, Thou'ri adverso to the suit I bring, And cold as is yon wintry cliff, Whero sea-birds close their wearicd wing
Yet cold as rock, unkind is wave, Still, Isla's maid, to the I como;
For in thy lore, or in his grave, Must Allon Vourich find his home.
II.

Write a composition on one, and only one, of the following subjocts-
(a) The Sciontific Discoveries of the 10th Century.
(b) Is Ambition a Vice or 8 Virtue?
(c) Doos Mrorality Advance as Civilization Advances?
(d) "Peace hath her victories no less renowned than War."
N. B. -One of the above subjects must be attempted, besides the paraphrase of the poem.

## HISTORY.

Time-Two Hours afid A Half.
1' Sketch the careor of Hannibal, giving the localities, dates and results of five of his chief battles, and the date and circumstances of his peath.
2. Defino the relations of the Italian races with the city of Rome from the end of the Second Punic War to, the death of Sulla.
3. Give an account of the struggle between Marius and Sulla, and its results.
4. Show how the Wars of the Roses increased the power of the Crumi un the une hand, and of the peuple on the other.
5. Describe the character of the reign of Cuarles II., and state what causes led to his restoration.
6. What principles of Constitutional Government were established by the Revolution?
7. State the objects and "esult of Lord Durham's mission to Canada.
8. Give the principal provisions of the Canade Constitutional Act of 1791 , and estimate its results.
9. Name the five most impurtant military engagements of the War of 1812-14, and state the orign and result of that war.
Values- 1,$10 ; 2,10 ; 3,10 ; 4,10 ; 5,10 ; 6,10 ; 7,10 ; 8,10 ;$ 9, 10,

## BOOK-KEEPING.

## Time-One Hocr and a Quarter.

1. Explain the use of the Day Book, Trial Balance, Cash-Book How do you transfer an entry from one book to another?
2. State the different kinds of Accounis; and explain the process of closing the Profit and Irons Account.
3. Define the terms Assignee, Bonded Goods, Bounty, Invoice.
4. Write out the form of (1) a Promissory Note, (2) a Bill of Exchange. What do you understand by "endorsing" a Note?
5. What are the advantages of Double Entity ?

Make the proper entries for the following -
(a) Purchased Mdse amounting to $\$ 1000$, for which I paid in cash SSOO, and for belarice my nots, due 3 months hence.
(b) Borrowed $\$ 2000$ from A.B. for 4 jears, for which I pay interest half yearly, at the race of $6 \%$ per annum.
(c) Sold goods amounting to $\$ 400$, for which I received $\$ 200$ cash, and for balance note due 6 mos. hence.
(d) Note of $\$ 200$ overdue 2 months; interest at $6 \%$ per unnum Values:-1, $16 ; 2,14 ; 8,16 ; 4,12 ; 5,22$,

## CHEMUSTRY.

Tame-One Hoor and a Hulf.

1. What experiments would you perform to demonstrate the properties of Chlorino ?
(In answering this question employ diagrams of apparatus used to illustrato the description of your experiments.)
2. In the evolution of Ammonia from Iiquor Ammonize by heat aquecous rapour passes over with the gas. Describe a method for drying the Ammonia.
3. Dessribe and figure the apparatus used for the evolution of Hydrogen from Zine and Sulphuric Acid.
4. What takes place when a cylinder filled with Nitrogen Dioxide is inverted over a cylinder filled with Oxjgen? Write the equation ropresenting the reaction.
5. How.much Potassium Chlorate is renuired to furnish 12 litres of Oxygen measurod at $0 \%$ and $760^{m=} P$ ?
6. Explain a method of preparing. the amorphous varioty of Sul phur.
```
7 Complete the foll wing equati. us .
\(\mathrm{Zn}+2 \mathrm{HC1}=\)
\(3 \mathrm{Cu}+8\left(\mathrm{ENO}_{3}\right)=\)
\(2\left(\mathrm{H}_{3} \mathrm{O}\right)+\mathrm{K}_{2}=\)
\(\mathrm{Ca} \mathrm{CO}_{3}+2(\mathrm{HCI})=\)
8. ia.) Cumpare the pruperties of Uxygen with those of Nitrugen
Monoxide.
(ii) What test may be employed to distinguish between these two Gases.
Values:-1, \(20 ; 2,10 ; 3,8 ; 4,10 ; 5,12 ; 6,10 ; 7,12 ; 8\), \(10+8\),
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## 保ractical \#gepartment.

THE PROBLEM OF TEACHING TO READ.

by J. m. D. meikiejoun, m.a.<br>(Continued from last month.)

It will bo seen that this irregularity and want of keeping faith fall chiefly upon the vowels. We have in our language 104 different ways of representing to the oye 13 vowel-sounds Let ustake a few of the most striking cases. Short $t$ is represented in our English notation by 13 symbols • ahnrt in hy 12 . lnng $\bar{F}$ by 11 ; long ${ }^{i}$ hy 13 ; short $i$ by 11 ; long $i$ by 13 ; sitort $i$ by 13 , and long $i$ by 12 . Wo, who are grown up, have been so long accustomed to these things, that we do not notice them; but the child has to notice them, and he suffers from them more or less-and generally more

The digraphs, ton perplex and confuse the child The andest of them all is oh. which we use in the writing of seventy five wride But in sixty-three of these we ignore the $g h$ entirely and in nine of them we make an $f$ of it. The story of the $g h$ is comical enough. An nearly as I can make it out, it is this: The Normans, who had been learning French for several generations, had as a consequence been throwing aside and leaving unuttered their native guttural sounds Perhaps, in some cases, the muscles of the throat, which are employed to utter guttural sounds, became atrophied; but in any case it had grown to be the 'fashion' not to pronounce throatsounds; and the English or Saxon scribes wrote them down faithfully, but quite simply. They wrote light, might, and night-as liht, milt, niht; and the $h$ had a more or less guttural sound. But the Normans declined to pronounce this $h$; they either could not or would not. Then said the Saron scribes: 'Oh' you fine Norman gentlemen will not sound our language as it is; you ignore our gutturals; we will nakie you sound them.' So they strengthoned the $h$ by putting a'g in front of it ; just as a farmer might strengthen a hedge by putting a strong wooden fence in front of it. But the Normans respected the one no more than the other; $g h$ is in fact far more difficult to sound than simple $h$; and accordingly they now ignorod both. But the gh remains - a moss-grown boulder from an ancient glacial period, when gutturals were precious, and men still beleived in the truthfulness of letters.

The work done by the letter $e$ is perhaps the most remarkable instance in our language of a union in une letter of real work with superfiuous busybodiness. Like the lurned cuunsel in Chaucer:s Prologue:

And yit he seemëd busier than he was.

## There is-

(1) Its usual work before consonants, es in wet and went.
(2) its use to lengthen the precediag vowel, as in mate.
(3) The doubling of itself to make its own long sound as in feed.
( $\$$ ) Its combination with a for tho same purpose, as in meat.
iv) Its combinatiun with a fur the ufieusite gurpuse, as in, bread.
(6) Its coming after i to make a longtound, as in pie.
(7) Its coming before i for the same purpose, as in eider.
© 8 , Its cumbination with i fus a yuito differant purposo, as in pieco.
(0) Its cumbiuation with itu make its own long suund as in receive.
(10) Its yoing before w to make a long $a$ sound, as in few.
(11) Its going after $\mathfrak{u}$ for the same purpose, as in due.
(12) Its going after $u$ to mak ${ }^{\text {a }}$ quite different sonnd, as in true.
(13) Its following 0 to make a long 0 , as in foe.
(14) Its preceding $o$ for the very same purpose, as in yeoman.
(15) Its combination with $y$ to make a long a sound, as in thoy.
(16) Its combination withiy for no purposo at all, as in money.
(17) Its combination with $i$ to make a long a sound, as in voil.
(l8) Its combination with i to make its own short sound, as in heifer.
(19), Its appearance at the ond of a word with no purpose at all, as in couple.
(20) Its combination with $d$ with no purpose, as in walked.

By this time, the child can hardly be expected to know what an $e$ is and what it is not.

The following are a fow more of the

## Oontradictions of E.

1. $\left\{\begin{array}{l}\text { Dream } \\ \text { Bread }\end{array}\right\}$ Hero it is long and alsoshort.
2. $\left\{\begin{array}{l}\text { Pic } \\ \text { Brief }\end{array}\right\}$ Here it lengthens and also shortens.
3. $\left\{\begin{array}{l}\text { Pie } \\ \text { Eider }\end{array}\right\} \begin{gathered}\text { Here it cumes after and also befure fur the same } \\ \text { purpose. }\end{gathered}$
4. $\left\{\begin{array}{l}\text { Due } \\ \text { True }\end{array}\right\}$ Here it has an effect ou the $u$, and also no effect

Nuthing can bo mure confusing and destressing to the young learner, unless the fairy Gued Order, summuned by the Teachor, cumesin tu assurt theso tangled threads and intert wisted distractions.
It may be useful tu sum up all the abuve statements in the form of a concise
bill of indictarent against our english notation.

1. An Alphabet of 26 letters is set to do the work of 45 sounds.
2. In this Alphabet of 26 letters, there are now only 8 true and fixed quantities.
B. The remaining 18 have different values at different times and in different positions; and sometimes they have no value at all. In other words, they have a topographical value.
3. Some of these 18 letters do-in addition to their own ordinary work-the work of three or four others.
4. A Vorel may have from 20 to 80 functions in our English Notation ; a Consonant may have tro or three.
5. Thero are 104 ways of representing to the cye 18 vowelsounds.
6. Six of these vowel-sounds appropriato to themselves 75 ways of getting printed.
7. In the most purely English part of the language, the letters are more often misleading than not. In the word cow or they, for oxample, thore is no single letter that gives any true knowledge or guidance to the child. That is, the lotters in the purely English part of our composite speech have a historical, but no present value.
9 The monosyllables of the language contain all its different notations, and these with the maximum of inconsistency. In read. ing the monosyllables, the child can trust neither his eyes nor his ears.

If this notation-which is the dress of the language-could be oxhibited to the eyo by the help of colours, it would be seen to be of the most piebald charactors. It would be not inaptly described by a sentence in ono of Dicken's novels: ' As for the little fellow, his mother had him attired in acostume partly Senteh, partly Bungarian; mostly buttons,* and with a Louis Quatorzo hrot and scarlet feather.

[^2]If we cumpare the nutation of vue Enplish, whyue with the auta then of the German language, wo shall find that - as is its nurds, su in its lettors - Gornan is an almust humugeneuus labgatago. One sound is permanently-and not provisionally rejuresented by une symbol ; one symbul as permanently tramatad by uno suind, and the consoquence is that the experionce of the German child in learnung to read is always self-consistont, and every effort ho makes tolls towards the desired result. The attitude of his niind $1 s$ a single and easy one ; overy act of attention ho makes tells towards the required tutal, he cannut go wrong if he pays any attention at all; his oyo and his ear are always in accord and help each other. Far differont is the condition of the poor English child. His attention to the letters will yuite as uften mislead him as not, in the purest English, the less attention he pays to the lettors the better; and ho is like a man in trade-he may often be working as,hard to make bad debts as to make good ones. The contrast between thio work of the German Teacher and of the English Teacher is justas great. The German Teacher's work is simple and straightforward; while the work of the English Teacher is at least five times as difticult, and the conquest of these difficultios requires keen skill, perpetual inventiveness, and untiring perseverance.

Now all this has come to pass from the independent and highly andividualesed character of the Englishmas. A lunal usage-a traditional custom would always override general convenience or a merely abstract consideration like logical consistency. Indeed, the confusion in our notation has parallels in almost every side of Euglish life: It has an oxtraordinary parallel in vur Weights and Measures, which have boen regulated -dumn to the date of the 1878 Session of Farlianeent चuntirely by luçal custum. An insjerial bushel of curn-a cisthated in Marh Lane at 63 ll ., but a was down to 1878-72 lb. at Wolverhamton and Stafford, 70 lb . at Livorpool, and 75 lb . at Ohester. In short, there were, prior to the passing of the Weights and Measures Act, twelve different kinds of bushels in uss in the rain trade. Thes state of things gave rise to endless confusion. A man night buy his wheat by one measure, sell it by another, and, last of all, demand to be paid for it by weight. These comphcations involved endless reckonings, and, by consequence, numerous mistakes. They were a great hindrance to trade, and, no doubt, were now and then the cause of serious losses. Another parallel is to be found in the coinage of Austria. There is gold money; there is silver money-some of it debased and deteriorated; and there is copper money; but,in ad. dition to these, there are four different kinds of papor money in four different languages, and some of it is debased to the extent of sixty-per cont. It is plain that, if one received payment of an account in sur of these different kinds of money, there would beover and above the calculation of the value of the things bought in a self-conswtent arithmetic-anpther reckoning based upon the relative and temporary values of the difforent kinds of money. In such reckonings, a foreigner and a child would be at a very great disadrantage. Now, just as an English bushel or an Austrian coin is continually changing in meaning and value, so the symbola by which wo attempt to carry words to the oye of a chld are constantly changing in meaning and value; and the childs mind is proportionally confused and weakened. If we had in our arithmetic a traditional system of notation made up of the fragments of the Greek, the Roiaan, and the Arabic systoms; if. 479 were written down as $\Delta V I I 9$; and if, moreover, our cuinage were so irregular that suxpence in Midalesex cuunted fur eightpence in Surrey, but it was only fourpence in Herfordshire, then it would be a vory difficult, todious, and expensive process to teach arithmetio in uur public sckīols.

The difficulty that would be folt, and the expense that would be
incurred, in leachisy such an arithnotic as that I havo indicated, are really fult ahd incurred in the teaching of reading-in putting intu the minds of the children an acyuaintance with the bad habits of ur nutation. Fur the problem is nut to make the child acquainted with 20 letters, it is really tu maku him acyuainted with and thoroughly practised in 158 eccentric and self-consistent habits which the English have acquired in the course of time, of writing down the sounds of their mother-tonguo. To master 158 combinations would require 168 separate acts of attention-each of which must be repeated until the whole are thoroughly mastered. Woll; this can be done. But the difficulty is even greater than this. Of these 158 habits, some are inconsistent with and destructive of each other; and the experience of the child is nut a regular process of addition and cumulation, but sometimes of subtraction and loss. Let me take an example. There are in the language 59 words in which the symbol out sounds as in house, noun, de.; and, of course, if the clild meets with a largo number of such words, he noturally and quite unconsciously draws the conclusion that $o u$ will alvays have this sound. But by and by, he lights upon words like your, four, would, and mould; and now, not only is his previous oxperienos upset, but he forms a vague ider that to ou may be attached almost any sound whatever. Now, if we attempted to give an arithmetical salue tu his experience, we might saf. He has met the first case of ou uine times; he has met the second case six times; and his experience is therefore equal to three. This is, however, rather a favourable way of putting it. The fact is, that, in our overy-day procedure with children, the exceptiviss make thenselves quite as impurtant as the rule, and buth Teacher aud child, in a kind of silent intellectual despair, give up the guidanco of the rulealtogether, and teach and learn each word separately, as an individual, andi not as one of a class.

The child at first expects to find a certain truth in these marks; but he quickly comes to feel that it is no matter what sound you give to a sign-that the sign itself has only a chance value : and, so far as training is concorned, the Teacher soon discovers that his eye is never rightly or thoroughly educated until after the expenditure of a disproportionate amount of time and monoy. He has constantly to read off letters that are not there, and to ignore letters that are there; he is constantly coming upon new forms for the same sound, and now sounds for the same forms, so that habit is out of the question. So far as the mind of the child is concerned, unless the Teacher adopts in scientific method, no wish for classif. cation ever arises in the child; or it sets in late, if it ever sets in at all. His past experienos is constantly putting him out-constantly tripping him up; until at last he comes to feel that he need not rely on his opn exortions, but must be constantly helped over the stones by the teacher. Thus all teaching of reading becomes telling; and these are just contraries and exclusive of each other. And here is another loss. our evil notation tonds to destroy good teaching.
(To be Continued.)

## -ENGLISH IITERATURE IN SCHOOLS.*

This is pre-eminlenty an age of books and periodicals, bad as well as good. and if we estimate the demand by the supply, we must conclude that the influence exerted through their modiumship ranks in power second to none. This infuence like the literature naturally divides itself into tiro classes, the first an oducating, broadening, civilizing, and rofining force, leaving its impress upon humanity for all time ; the second a stultifying, degrading and demoraluang factor, as offective for ovil as the first is for good. To arrive at the conclusion that this later class of literature is being spread broadcast over the land, we nead but examine the heavily ladna shelves Read at the mecting of the Wisconsin Toschers'. Asoociation, Sradison, Dcc, 97,1882 by Prinumal Ros, A Falls.
and countors of any popular book and nows store aud note that weok after weok the piles are being roplenished. To counteract this something must be done. Boys and girls who have been educated up to that puint where the act of reading is not hard work, rill read, suiting the subject mattsi to the nature of the mward craving that exists. If early teachug has not msured that the reader look with disdain upon such productions as "Roarmg 1 bll of Rock Holluw," "The Pirates Bride" or "The Lives and Expluits of the Yuunger Bruthers," very probably some such productions will occupy at least a purtion of time. Withour staying to discuss the amount of evil resultang from the dissommation of such thunght, or the question as tu how much of this is due to a total neglece on tho part of teachers of what their pupils read, pormit me to pass to a consideration of the means by whach we may inculcate a taste fur a better class of reading, means which to prove effectual, should be resorted to from the beginning of the chuld's school-life, yes oven before he is able to rend.

Who that has ever given any attention to the development of the child mind can have failed to notice that craving for sumething to satisfy their intellectunl hunger, shown in their oft repeated "Read me a story." Why should we not take advantage of this appetite, and in satisfying it, take occasion to plant in the young mind the gorm of that which shall in coming years developo itself into a passion for the gooa and great and beautiful in Litorature. As a rule wo find that at this stage in life nothing at all is done along this line, or clse the mistake is made which resulte in giving us so many persons of liberal attainments, whoare fotally unable to appreciate anything in literature appealing to the imagination. Too many considered it useless-nay worse than useloss-injurious to do angthing for the cultivation of imagination. At the very period in life at which thie faculty is the most promising, it is either allowed to die of starvation or sacrificed to the unmatural surport of some other member of the cerebral family. Fairy tales, legends of wonderlend, the beautiful myths of the old Greeks and Romans, which the student of literature afterwards finds it so necessary-to understand and which confront him with the scientific name of mythology-fables, inculcating the moral and social virtues-all these are cast aside as silly, childish and unpractical, a fellow sentiment to the one which insists that the bny must know interest, square and cube root, etc., even if he does not know how to write an intelligible letter or speak correct Engligh.
Books there are, however, where fact and fancy are so closely mterwoven as to satisfy the demands of him who must see his proximately practical use for everything without the expenditure of a moment's thought. I remember distinctly my first large storybook, "The Soven Little Sisters That Live in the Round Ball That Floats in the Air," and I spent hours in thinking and dreaming over the wonderful things which I read and re-read. They were put upon the same basis as my fairy taile, and sank just as deeply into my mind. Years aftervards, when my teacher began to tell me of this wonderful earth of ours that goes spinning through space, and the different people who live upon it, my story was quickly translated, and became a series of valuable lessons in geog. raphy and ethnography. Books of this class, together with books bearing a similar relationship to natural history, will be eagerlydevoured. It is wonderful how much useful information may thus be imparted and the desire for moze increased.
The chief line in which corruption of tasto may come in early years is that of reading cheap and villainous periodicals. This may be prorented by placing in the hands of the pupil something of a fitting and interesting nature, and then striving to create a sentiment against the worthless reading. A little porsevering enorgy
in this direction will soon drive out the practico from our schools, or if not totally oradicated the habit will soon be put on a basis with othor evils in which some pupils may clandestinely engage. There are periodicals liko the "Youth's Companion," for instance, which will be seized upon with avidity by all young readers.

The stormg of the mind with useful thonghts clothed in beauti. ful language is an adjunct to this work, which cannot bo too highly. rated. It should be begun early when the child memory is in its vigor. The practice is often aimlessly followod by teachers of having ther papils learn pootical quotations of any lind that ingles, without referonce to the thought. The fact that verse is more easily memorised than'prose seoms to be enough to commend it. "It thur hapi" ans," says Bain, "that poetry above all other things may be commitied to words as three-fourth words, and one-fourth meaning." Prose selections, although more slowly mastered, will as a ruis be of more benefit. But the time does come when poetry mav be read with advantrge. As faw nergong nocuetumed to simpito foods only at once rolish the highly seasoned dishes of the French cook, so for pupils are at first able to appreciate the beantiful in poetry. Like the great mass of our tastes, it begins with little things and its growth is gradual. Were we to begin our high living witl an attempt at highly-spiced soups or wines there might come straightway an aversion to these delectables which we might bo unable to overcome in years of willing effort. So the teacher who endcavours to furnish as mental pabulum for his classes beginning an acquaintance with poetry', Milton's Parndise Lost, Virgil's Fncid, or Shakuspeare's Tragedies, may expect to seo them turn in disgut, and wonder what manner of individual it can bo who can enjoy such reading. To prevent such a disastorous state af affairs, necessity demands that the first poems selected shall be eminentily in. teresting. Short ballads, historical poems, etc., may pave the way to something of a more formal nature. One poem that in our individual experience has proved inore useful than others as an appetizer for the higher class of reading is Scott's Lady of the Lake. Read daily for thirty minutes to a class of twenty pupils, discussed at the time of reading, reproduced in short prose tales, and in five minute talks from members of the class, and so handled as to insure its thorough understanding and preclude the possibility of its serving simply as an occasion for a little mental dissipation, we believe it engendered an appetite for more of the same kind with fully three-fifths of that class which will leave its impress upon $t_{2} \mathrm{em}$ through their entire lives. They become possessed with a desire to know something of the man, and his contemporaries and their writings, until they become ardent lovers of good reading, if not earnest students of English literature.

Some years ago this Association saw fit to outline' a course of reading for the tarchers of the state of Wisconsin, which I have reason to know has borne good fruit. I am cognizant of the fact that in at least three counties of this state the course has been and is being read by the great majority of the teachers, and county superinfendents make a note of such reading on all certificates issued. Now while I recognize the philanthropy of this werk of reconstructing so many teachers, wổld we not secure much more good if a suitable courss prepared by the most experienced and able talent of the state for the pupils of our schools were placed in the hands of the teachers through the agency of the state department? The great mass of the teachers of the next generation aro ie the schools of to.day, and the effects of such a movement would bo felt in this schools of the future. Were it not that it might seem like an attempt to close discussion of this topic, I would move that a committee be appointed by the clasir to prepare a course of reading for he pupils of the public achools, report to be made to this body at the regular meeting in July.

## THE READING OLASS.

The teachor who expects to attain the best results in her managoment of the reading class, must bo attentive to the following particulars: 1. Sho must comprehond what are the desired onds of her teaching of this class. 2. Knowing these, she should understand the best.means and methods of reaching them. 3. She will have to be persistent in her offorts to accomplish then, and bo able to knuw whon a fair degreo of proficiency is attained.

I propose only to say a fow things concerning the first of these particulars-the ends to be accomplished in the teaching of the reading class. When I refor to the reading class, I wish to be undorstood as that class which begins with the child in its first attempt to leam the signs of ideas as associated with risible ubjects, and continues on up through every grade of advancement, till it finally emerges from the tuition of a teachor. The question which every faithful teacher should sottle: within her own mind $د$, " What are all the objects to be arrived at in teaching reading? What is the nature of them?" If she has finally settled this matter, she should then familiarize herself with every painciple, every method, calculated to develop that purpose, until to hor mind they are as simple as the alphabet.

To one who has nover given this subject much thought in its broadest sense, an outline of the main things to be accomplished may not be inappropriate.

1. A drastery of Words.-The beginning point in the commence. ment of teaching every child is to teach him words. Ho must be taught to recognize them as the representatives of idens, first as tho signs of objects familiar to him; and as he advances, by reversing this order, for he then learns ideas by learning to recognize words which wore not familiar to him. When the child learns to know a word, he should be taught to speak it and write it. Jsy the latter process he is taught te spell the word. It will not be attempted in this article to suggest methods. The skillful teacher's ingenuity will devise her own. The result is all that shall claim our attention. In the mastery of words, the pupil must learn to recognize words; to associate the word with the idea it represents; to speak the word; and spell the word by writing it. The accomplishment of this result is not confined to the primary teacher, but will continue to be an object of importance as long as the pupil studies the art of reading. The methods only need varying.
2. Dilizery.-After the pupil has been taught a sufficient number of words to construct into sentences, he should then be taught to read them in a proper manner. The first principles of delivery should be taught them at once. The labits of articulation, emphasis, inflection, etc., are only perfected when they are enforced in early youth. As the pupil progresses, more of the principles of expression should be taught him, and when sufficiently advanced, the terms, definitions, rules, ste., of elocution should be mastered. All the arts of oratory, all the graces of the elocutionist, should be taught, if he continues in school.long euough for thoir accomplishment.
3. Increasing the Child's Vocabulary.-No other subject is so inportant as this. When a pupil becomes the master of a large vocabulary of words and knows their moanings, he is then in possessinn of such means as enable him to think Our ideas are always thought in words and ceppressed. in words. If we notice our own cogitations, we will always find ourselves employing words to aid us in following out a train of thought. The child's knowledge of words should beas much expanded às is possible. Right here I will venture to suggest that the dictionary is perhaps the best aid in tho aciomplishment of this end. Giving definitions, synonyms, and the various meanings will be a most valuable exercise. As the pupil
progresses, a study of the otymology of overy new word coming up for discussion will strengthen this knowledgo. A thorough drill in these exercises will prove nost invaluable to the pupil in the pursuit of tho knowledge of other branchos.
4. The Study of Laugurge. -The roading recitation affords many and excellent upportunities for acyuiring an intimacy with the structure of our languago. The relation and government of our words may be taught a long whilo before the pupil is capacitated for che investigation of technical grammar. Certain slate exercisos on the rending lesson will result in a development of the powers of expression. Childron under skillful teaching will have made considerable progress in a knowledge of their language while yot reading in the primary readers. It should not be taught in a desultory manner, oithor; the eimplest principles should be first developed, and afterwards more complex ideas nastered. What is taught should be thorough as far as it goes.
5. Learming the ētements of viñer B̄rancies. - In our reauing jooks there aro many lessons which teach facts pertaining to other studies. Biography, history, geography, and science are all more or less represented in the reading exercises of our text-books. The teacher should see that they are fully understood by the pupil. It will often be necessary to supplement these lessons with explanations by the teacher, in order to make their meaning plain. It is proper that pupils have regular exercises in reading, writing, or script. Lessons placed on the board by the teacher, in which are stated the elements of science, or some other branch of knowledge, will answe $r$ a two-fold purpuso-a reading lesson, and a lesson in a collatoral study. Such lessons heighten the interest, quicken the thinking faculties, increase the common fund of knowledge, and improve the memory.
6. The Study of Literature.-Just nor this subject is receiving some of the attention that its importance deserves. Whilo it is impossible to discuss this matter as fully in a brief space as it merits, a lint ought to be sufficient to the wide-awake teacher, that her work is not satisfactorily or effectually proformed if she pass this matter unheeded: Biographical sketches should be written on the board, and the pupils encouraged to hunt up information on the same subject for themselves. They should further be required to write up suchs ketches. They must be instructed in the peculiarity of style of each author. The productions should be analyzed, and the choico thoughts memorized. By beginning with the child at an early ago, and teaching no more than it is able to comprehend, and keeping it until it has grown into the young lady or gentleman, a large amoment of culture in this direction will bo quite preceptible.
7. The Cultivation of the Voice. - If the teacher is perfectly well informed regarding all that is incumbent upon her in developing a proper culture of her pupils, she will not neglect this. No rules are to be given here. Pleasing voices dolight us all. They impress us agreeably or otherwise according to their character, and if there is such a thing as improving an unpleasent voice by cultivation, that teacher is greatly to blame who fails to make an effort towards its accomplishnent. The voice is susceptible of cnltivation to a great degreo of power ; its expression may be made beautiful and varied; and its care should constitutea large share of attention. The nature of certain kinds of food, the dress, the use of stimulants, andexercise, should we fully explained to every one, and all burequired to conform to such rules as will promote and preserve its power and beauty.
8. Gultiouting a Love for:Reading. -No teacher has fully succeeded who has failed to implant in her pupils a passionate love for reading. Not reading for mere entertainment of the mind, but the nobler, the higher uses of sceking wisdom in the realm of thought,
as it is to bo found in books and papers. That individual is poorly prepared for life who has not been taught to enjoy the great plea. sure of perusing the thoughts of others. Reading should not stop when the school life is ended, nor when one settles down into $n$ home and business of his uwn All shuuld read, nut anything and everything, but should be taught to read in a systematic way. Thas will they romed uat their intellectual talenta in all directions, and verify the truth long ago stated by Bacon, :hat "Reading maketh a full man."

## T. W. Firlds, in Indiana Schuel Julumal.

## A LANGUAGE LESSON.

Cnbrunded as is the influence of the teacher, for goud ur ill, in nu direction is it mure putent than in the mattor of language. Children are cluse imitaturs. The teacher's language is adupted unconsciously, whether it be pure, ur blemished by inaccuracios. We all how how easily une falls inio incurrect habits of speech, and catches expressions which, if nut pusitive slang, are, at least, " more striking than classic." We imitate the tones and ticcks of speech of those with whor. we are most intimate, to such an extent that thnse who know both parties recrgnize the adopted tone, and immediately attribute it to its proper source.

It is through this tendency to imitation, that the teacher may hope to affect the language of her pupils, as well as by personal effort for that end. But is her language worthy of imitation? Is it grammatically correct, pure, simple truthful " One has only to listen to the conversation at any teachers' gathering, to be convinced of the fact that the teacher is not always a model of accuracy.

Perpahs, young teacher, your attention has not been called to your own defects. Watch yourself carefully through one entire day, and you will be startled at the revelation. You may not be guilty of "aint"; of "I done it," for "I did it"; of "When I come to school this morning," for "When I came," etc. Aro you equally free from, "He don't (do not) pay attention to his work," " intended to have written," "I am going to go to the lecture," "Each pupil may take their slate," and the like?

Endeavor to correct all thuse orrors, and you will reslize how hard it is to overcome the habits of a life time. Is it not a dreary thought that, with extremely rare exceptions, human beinge aro surroanded in childhood by thoos whose speech is inaccurnite? Thus from our very births ie form wrong habits that only the most presistent effort can correct. And hore we find $a^{-}$strong argument for accuracy on the part of the teacher, as well as for the correction of pupils' errors by the teacher, before bad habits are strengthened by years of indulgence therein.

Do not be discouraged if you do not at once succeed in revising your methods of speech. Take one error at a time. Cultivate the habit of criticising the language of others, not uncharitably, but to render the ear sensitivo to errors. When one's ear is quick ti detect flaws in the conversation of others, it will reveal equally as well one's own imperfections. This point reached, we have good reason to be hopeful.
Is your language pure? Do you, of several expressions, choose that which is the most refined? Be on your guard against the use of slang. To young children thero is something attractive in a freo off-hand style of conversation ; but do not lot the freedom degenerate into coarseness. There are many expressions which began existence as unmitigated slang. Adopted here and there by members of a class higher than that with which they originated, thoy have at last come to be regarded as fairly rospectable English. Shun them. Beas exclusiveas you will in the domain af language.

Lot your language be simple and concise ; froo from that superfluous use of adjectives which leaves one at a loss for words to docribo objects ocensioning omotions of grandeur, sublimity, and beauty, because "awful," "magnificent," "grand," "sublimo," " perfectly luvely," are used so commonly as to have lost their meaning.

Butrue. Perfest truthfulness of character will roveal itself in truthful language. The habit of exaggerated uttorance is so universal that a person whose langunge is exactly suited to the thought tu be expressed is indoed rare. Lot your conversation bo so simply. true, so froe from exaggoration that your pupils will any of you, "Teacher never says anything she dues not mean."

Does it seem a trivial mattor to give one's attention tu deciding whother a dress is indeed "perfuctly 'uvely," or only "vory beauthful "? "Hu that is faithful in that which is least, 18 farthful alsu in much." Remember that years of faithfulness to duty, even as a child, bring their reward in the crises of our lives. When the heart is turn with auguish, and tho mind is shruuded in darkness; when on the pathway befure us nu light is thruwn, and we are tossed about in dread and uncertainty; then Duty, who may have been the "stern lawgiver" of formor years, assumes "the Godhead's most benignant grace"; and, giving back to us the strength that is born of long obedience, holds us firmly by the hand and leads us again " beside the still waters."

Our language has been made what it is to day by the accumulated additions of successive generations. What service shall our generation render? In the future years will the student of language find in the language of this peroid a high-toned national life? In nothing is the life of a nation more plainly revealed than in its language. Remember, and we cannot omphasize thin point toostrongly, that the nation is but the "general average" $n$ f the individuals composing it,-whether in language, menners, or morals. It is only as each individual becomes conscious of his duty, and seeks a higher plain of personal attainmont, that there can be any national aspiration toward higher things. Pondar upon this, young teachor. Let the thought stay by you until it beeomes a part of your mental possessions. Nay, more, until it shall becouse a ruling motive of your life, and is incorporated into your character that fine patriotism that leads one to make of himsolf all that he can, for his country's sake.

B! Idn M. Gardner, in the Primary Teacher.

## SCRIPT FIRST-THEN PRINT.

A teacher asks, "Why printing on slates should not be taught to smail children since that is the form which is first put before them." The child should be taught to read script first from the black-board, and he should begin immediatoly to copy the words on his slate. One reason for copying is, that there ase no books or charts, which costain repetition enough to familiarize the child properly with the words.

By teaching the script first in this way the child learns the print form to be the reading form. Ho makes the transition without difficulty. If you teach print first on the other hand, it seems almost like a new language to learn the soript. This method has been tried a great many times and all who try it say that script should come first. One of my classes is composed of children who knew nothing whatever of reading script first. I taught them scrint from the board, taking words I know they would need when they were ready for the chart. When these words were familias, I turned to the chart, and found they read them with perfect ease. The error in this way of tenching reading is, that those who try it do not present the words to the child sufficiontly in script beforo turning to print. - V in New Yorl: School Journal.

## THOUGHTS ON LEARNING LANGUAGES.*

Hïnsohen's father sat on the deck of an excursion-steamer with little Hanschen on his knee. Hiansohen was a bright, little rolypoly Gorman boy. Ho had nover heard of " methuds in language," but he was learning German. So was I : so I sat near the happy fathor and sun, and made a study of Hänschen's masterly method of gotting hold of his subject.
"What's that, papa?" pointing with the plump little index to the mpidly-passing shore. "That's a castle." Hinschen repeats the word after him quick as thought. He meditates a minute. Being a lover of truth, he will repent the question to be sure of the correctness of the statement. "Papa is that a castle?" "Yes; that's a castle." Hanschen feels assured. "Anuthor castle?" A. gain the suule fat finger dues good service. The big bruther cumes to his assistance. " 0 , see the castlo, Hanschen 3 " The oyes of the baby-buy glisten with interest and his curly pate bubs about. No castlo is the be seen. He fruwns; he has been deceived. Ho . knows a castle now. No one can deceive him on that subject.

Hanschen is a social being. Ho is getting his education by intercourse with other minds. Moreover ho is busied about the most important branci of education. He is learning to enter intu the thoughts, feelings, and motives of his follow-men. What are the principal features of Hünschen's method?

First : He learns one thing at a time.
Second: He repeats it again and again. When he gets home, he will tell mamma about the castle, and there will be a review-lesson on the subject. To-morrow he will find a castle in his pieturebook.

Third: He busies himself with $九$ thouy at. not a word; just as when he takes his luncheon, he thinks about the bread, not about the fat littlo hand that hclds it.

Is Hänschen amused by the castle? Brore than that: he is in$t^{\text {tensely }}$ interested: Is it tiresome to him to talk about the castle? Is his bxain wearied by this new thöught?

That night, while Hänschen eats his bread, his big brother tells hiun about a castle ten times as large as the one he saw to-day. A. dreadful ogre lived in it who ate up little boys. Hänschen's im. agination begins to run riot. He dreams of a sugar casile, which he will eat all himself. His lips suck it gently in his dreams. He will never forget the word "Schloss." Neither shall I.

By a daily repatition of this process nur babies, all over the land, learn that absolutely perfect imitation of the specch of their elders whish, is the wonder, admiration, and envy of any adult who attempts to accomplish the sama thing. No idiom or pronunciation is too difficult for them to attain. The vocabulary of the small child may be limited, get the real difficulties of the language have all been inastered long before he is five years old.

In learning foreign languages can we make any improvement on this method? The study of language, when properly undertaken, is a delightful recreation. It deals with that most charming of all subjects,-human nature. The bright eye, the glowing cheok, the youthful enthusiasm, are its attendants. In this, as in all other branchcs of study, the teacher must learn to know his place, to be a learner with his pupils. Let him sit at the feet of the infant bsablers and learn perfection in method.

In so far as he can learn to deyelop the personulity of his students, to arouse in them a love of thoroughness and appreciation of the beauties of languago, in so far does he show himself a humble, conscienticus, and worthy follower of the method of a little child.

- By Maud Bell, Teacher of Trench and German, Poiedam (N.Y.) Stato Normal School.


## "SCHOOL-ROOM SKETCHES.

## BY JOHN II DENNIS.

In the Bailey school-house a new teacher had been obtained. He was a tall, lank fellow; a high brow and compressed lips showed he was narrow in ideas and determined of will. The pupils were from the farm houses and the little hamlet near the mill and woollen factory. They wore not a bad set of boys and girls; their fathers and mothers wore steady church goers and a prayer meeting was 'held in the school-house each Sunday afternoon. Yet it was deemed necessary that very strict discipline should prevail, at least what was called dicipline.

On upening the schuo Mr. Allen told the boys and girls that "he should expect good urder; that nu whispering would be allowed;
 the way to and from schoul." He held in his hand a stout ruler and waved it about in an energetic manner while speaking and finally laid it on the desk. "Buys," he said in conclusion, if I have uccasion to use that ruler it will be your fault ; ind mark me, if I use it I shall use it with a heavy hand."

This was a common enough peroration twenty five and thirty yeare ngo; but light was beginning to dawn on the boys in the Bailey district. Some had been to an academy in a villago about ten miles distant and returned with the information that no one was flogged there. The dotermination was doep and strong among the older boys that they would not be flogged at school. "If I can get along at the academy without flogging, I can at a district school, I guess," said Julius Cone.

The parents sided with the ideas of the teacher, because in all times past children had been whipped at school. The advice they often repeated to the boys, was "only bad boys are whipped; and if you are good you are safe enough." The preceding winter a boy. had been tied to a post and whipped very severely, because he made a picture of the teachor sitting on a barrel and smoking a pipe. As this was what he had been seen to do at a small grocery, near the mill, the castigation was deened by the boys io be a great injustice. Deacon Cook represented the other side of the case. "He mustn't disrespect the teacher; besides he mustn't make pictures on his slate, that's for cipherin' on."

So that, unknown to the parents a revolution had begin in the district. at the close of the first day, the subject was pretty thoroughly discussed, and the older boys determined, "not to be put, upon ; if Mr. Allen treats us well, we'll treat him well." The second day brought in an addition to the pupils for the farm work was nearly completed. After cautions as to whispering the teacher had the pupils "read ro:nd in the testament"; this was the first thing done in all country schools years ago; the old and the young all read a verse. Mr. Allen watched the boys, for he meant to strike terror at tise outset. He foolishly thought that flogging was part of his duty as a teacher, and that it must be done in order to secure order.
"You are whispering : como out on the floor." The unfortunate boy was Peter Cowles, a good natured, but obstinate hoy of seventeen or eighteen years of age. Peter obeyed.
"Whist was you saying?"
"I said, I wish I was to hum."
"What did you say that for?"
To this uo reply was made, for Peter would rather bu whipped than tell the school that he had come from home without any breakfast. Mr. Allen conceived that Peter intended to compre: the school with his home and to assert that his ecaucation would be
advanced as much at homo as at school. This iffiront he must put down at once.
" Off with your coat, sir."
"I'd rathor not tako ofl my coat," aaid Potor.
The reason was that the boy had no vest on and his suspenders were mere atrings, for the Cowels were poor-yet they had pride; in fact this was the strong point of the family. Mr. Allen did not know that Peter was resisting to save the reputation of the family, but looked at his resistance as displaying a further depth of dopravity.

Then ensued one of those scenes, then so common, but happily less so now ; a scuffle between the teacher and pupil. Tho teacher was armed with a as sut rnlor and used it as a policeman does a club, but the cruelty he cusplayed aroused. Julius Cone and he held the master's arm.
' You ought not to strike him like that, and I'll not stand by and see it."
The younger children and girls rushed out of doors, but returned at the quiet that ensued. The teacher sat in a chair and two of the older boys James Barnes and Julius Cono were beside him.

* We don $t$ intend to hurt you, but we cannot see that boy beaton with a club for nothing.

Mr. Allon was in a quandary; it was necessary for him to teach school; he felt there was justice in what the boys said; and so after a moment's thought he said,
"Do you mean to provent me from keeping order?"
"No sir ; wo shall only prevent you from abusing that boy."
"Well, boys, take your seats, call in the pupils and let us talk this over."

The result was that the teacher and the older pupils came to an understanding. It seemed to the master at first that he was humiliated and that his influonce was gone, but it was but for a brief period. He soon felt that James and Julius were his firm friends; as they came to know each other better, each respected the other more. Mr. Allen had the making of a good teacher in him and the school that winter was declared by many " the best we over had."-New Yorli School Journal.

## CONCISENESS IN STYLE.

In teaching children tu write the first effort is to induce them to write as much as possibleabout a given topic. Later, however, the the great point should be to express a given thought clearly in the fewest words. A good rule to follow is this: First, write out your thoughts fully on the subject under consideration. Second, revise your composition and cut out from one-fourth to ono-half. What is left will contain all the essential ideas, and be more pointed than the first draft.

Conciseness, especially in written speech, is a great virtue. Teachers need to study it-they should teach it. Writing tele grams is an excellent exercise. A minister who wes taken to task for preaching a whole hour, apologized by saying that he had been over-worked, and did not have time to make his sermon shorter. Hawthorne is acknowledged to have been a master of a pure English style. You will not find an italic letter in any of his books. His emphasis was in the sense of what he wrote. Ho used, almost entirely, words of few syllables. There are no big, heavy words in his works. He used no foreign words or phrases, either ancient or modorn, in any of his writings. Those who would write well should follow his example. Use short sentences; if long ones, break them up. Have one member of a compound sentence longer than another. Cse words to make thunge clear. Think of your reader ; have it before you that he understands just what you have seid. - Indiana School Journal.

## TEACHING COMPOSITION.

## . 1. Divections fnr Tcachers.

1. When you take charge of a class not proviously trainod in composition-writing, set the pupils to copying short reading lessons. Let them exchango papers, and, with open book, correct one another's exercises with reference to spolling, punctuation, capitals and paragraphs.
2. Next, let them write out an abstract of some familiar story, told or read to the class.
3. When you require a formal composition, select a subject for the entire class, and give tho necessary directions, explamations and suggestions. Solect subjects about which your pupils know something. Never abstract subjects, such as happiness, or knowledge, or virtue.
4. Train your pupuls to corroct one another's compositions, and require them to re-write corrected exercises.
5. "I call that the best theme, which shows that the boy has read and thought for himself; that the next best which shows that he has read several books and digested what he has read ; and that the worst which shows that he has followed but one book, and followed that without reflection."-[Thomas Arnold.
6. "Training in the appropriate use of the Englash language ought not to be limited to the mere grammatical exercise of composing sentences. Even in our common schools it should extend to the cultivation of taste by which neat as well as correct expression is acquired as a habit"-[Russell.

7 "I hold as a great point in self-education that the student should be continually engaged in forming exact ideas, and in expressing them clearly by language. Such practice insensibly opposes any tendency to exaggeration or mistake, and increases the love of truth in every part of life. Those who reflect upon how many hours and days are dovoted by a lover of sweet sounds to gain a moderate facility urion a mere mechanical instrument, ought to feel the blush of shame, if convicted of neglecting the beautiful living instrument wherein play all the powers of the mind."-[Prof. Furaday.
8. "The study of rhetoric in high uchools ought not to be completed in fourteen weeks. It should be continuad through the entire course, at the rate of one lesson a week, because it relates to language, which is the instrument used by teacher and pupil throughout the course. This method will give time to write the exercises assigned in works on rheturic, and will not interfere with other studies relating to the English language."-[George W. Minns.
2.-Dircctions to be Giren to Pupils.

- 1. Think about the subject and make some plan of arrangement.

2. Do not run together a long string of statoments, connected by ands, buts or ifs, but make short sentences.
3. After writing the first draft, examine it critically, cross out superfluous vords or phrases, interline, correct, and then re-write. 4. In correcting, examine with reference to :-1. Spelling; 2. Capitals; 3.-Punctuation ; 4. Use of words; $\mathbf{~}$. Constrnction of sentences.
4. Acquire the habit of crossing $t$ 's, dotting $i$ ' $s$, and punctueting, 'as you write.
5. Do not put off writing until the day before you must hand in your composition.

In school-work true principles must undorlio correct practice; justan truly as good soils underlie the production of good grains and fruits. $\rightarrow$ Etlucation.
There is no harm, but on the contrary there is benefit, in presenting a child with ideas somewhat beynnd his easy comprehension. The difficultics thus offered, if not too great or too frequent, stimulate curiosity and cucourage exertion.--Sir Waller Scott.

## CONVERSA'IIUN IN A GRAMMAR CLASS.

Teacher:- Will you give mo a rule for the agreoment of a vorb in a rolative clause in which the relative is the subject, and hats for its antecedent predicate noun roforring to a subject in the first or second parson?

1st Pupil.-I do not understand the question. Will you ploaso give me an examplo?
T.-Should we say "I am the general who commands here," or "I am the general who command here?"

1st P. - The lattor.
I', -Why?
1st $P$.-Bocause tho subject of commend is whu, reforring to gencral, a predicate noun denoting the same person as $I$.

T'.-Should we say "I am he who am going to do this" or "I sm ho is going to do this"?
2nd P.-The latter. Because who refers to he, pronoun in the third person.
T.-Passing this for the present, what rule have you luamed for the agreoment of the pronoun with its antecodont?
3d P.-It agrees in porson, number and gender.
T. - Is that true of all pronouns?
$3 \boldsymbol{l}$ P. -The ginmmar says so.
T.-How do you know the antecedent of an interrogative pronoun?
4th P.-By looking in the answer:
T.-In the following, "Who comes here? Ans. I ann coming," what is the antecedent of who?
4th $P$. -The pronoun $I$.
T.-How can the form comes agree in person with $I$ ?

4th $P$. -That's what the grammar says anyhow.
T.-Passing this for the present, should we say, "Whesoever thou art who comest here " or "Whosuever thou art who comes here?"
5 th $P$. -The first, becnuse the antecedent of tho is thoit.
(ith. P.--The second, becuuse the antecedont of who is whosoever, a predicate pronoun in the third person.
T.-Passing this for the present, toll mo what the subject of the verb is in the following sentence:- "It is pleasant to see the sun."

7th P.-"To see the sun," for it is a more expletive, serving to throw the subject after the verb.
T.-In the following sentence.-" It was nut he that did it," what is the subject?

8th P. -The pronoun he, it serving the same purpuse as befure. T.-Are you sure?

8th P. -That's what our "Analysis" says.
T.-How is it in the foilowing : "It is I ?"

9th $P$. -The pronoun $I$ ought to be the subject, but. I dun't see how it san be.
T.-You may look up all these points for to-morrow.-Illinois School Journal.

## BE A GOOD READER.

There is one accomplishment in particular which I jwould earnestly recommond to you. Cultivato assiduously the ability to read well. I stop to particularize this, because it is so vory much neglocted, and because it is so elegant, charming and lady-like an accomplishment. Where one person is really interested in music, twenty are pleased by good reading, When one person is capable of becoming a good musician, twaty may become good readers. Where there is one occasion suitable for the exercise of musical talent, there are twenty for that of good reading. The culture of the vice necussary fur reading woll, gives a delightful charm to the same voice in conversation. Good reading is the natural exponent and
vehinle of all good things. It is the most effective of all commentaries upon the works of genius. It seoms to bring dead authors to lifo agnin, and mahes us sit down familiarly with the great and good of all ages. Did you ever notice what life and power the Holy Scripture has when well read? Have you over heard the wonderful effects produced by Elizaboth Fry on the prisoners of Nowgate by simply reading to them the pamblo of the Prodigal Son ? Princes and peors of the realm, it is said, counted it a privilego to stand in the dismal corridors among felons and murderers moroly to share with them the privilege of witnessing the marvelous pathos which gonius, taste and culture could infuse into that simple story. What a fascination there is in really good reading! What a power it gives one! In the hospital, in the chamber of the invalid, in the nussery, in the domestic, in the social circle, among choson friends and companions, how it onables you to minister to the amusemont, the comfort, the pleasure of dear ones, as no ether art or accom. plishment cam. No instrument of man's dovising can reach the heart as does that most wonderful instrument, the human voice. It is God's special gift and ondowment to his chosen creatures. Fold it not away in a napkin. If you would double the value of all your other acquisitions, if you would add immeasureably to you: own enjoyment and to your power of promoting the enjoyment of others, cultivate with incessant care this divine gift. No music below the skies is equal to that of pure silvery speech from the lips of a man or woman of high culture.-[Prof: John S. Hart.

## AN IDEAL COUNTRY SCHOOL-TEACHER.

As the character of a teacher in the comantry may tell more directly on the pupil than elsewhere, let us see what qualitios are most needed. Justice should be its basis. No teacher ever rules well by caprice. A wrong deed may not call for excessive punish ment, but the punighment' should be sure. - Do not let one pupil suffer while anothor goes free. Nevertheless, owing to the difforent temperamonts of the scholars, the same net may be a more serious fault in one scholar than in another, and may call for different treatment. So it is best to let it be clearly understood that the teacher will use his own discretion in punishment. Be sure, however, that that it is discretion, and not partiality or carelessness which governs. The pupils may not understand the difference, but they will soon feel it.

Good temper should come noxt, perhaps. Sharpness rasps tho pupil's nerves, and causes a loss of intellectual as of moral force. Perhaps eren an ideal teacher cannot always be inwardly goodtemperc, and let us use the largest charity in judging the worn and tired actual teachers ; nevertheless the ideal remains the same, -an unruffied and pleasant oxterior.

If a higltsense of honor could be cultivated in boys and girls, the world would soon be a different place to live in. Whether in the business community or the domestic circle, new forces would be set in action. There are many ways of inculcating honor, but none so sure, slow as its works may be, as for the teacher to be thoroughly honorable in dealing with the pupil. A new teacher blushes to own ignorance. perhaps but unconsciously gains a moral power by the honest admission of it. I do not mean that a teachor should pub lish his own failings; but that no clever subterfuge which deceives the pupil can have half the educutional value of entire truthfulness.

Teachers of country schnols should be emphatically, ladies and gentlemen. The finer therr manners the better, though these should rest upon a substratum of something besides manners. Children catch a trick of manner very quickly. An untidy teacher has a far mure unwhulesome effect upun pupils than one who works unt cube mot with difficulity. It would even be a good thing. if the teacher
undorstood all the rofinoments of atiquette, provided that nothing more important had boon sacrificed in acquiring thom; but, in that case there should be sufficient judgment not to urge these nicetios upin children whose parents would grumble at them. The teacher must have tact to see that many hinds of hnowlolge must be with. lech until the pupils themselves begin to reach out fur thom.

A social disposition is of great value to a country teachor. To know the habits and wishes of the parents is a great help in instruct. ing the children. To be liked and sustaned by the parents gives one power over the children. Tu be useful and entertaining in socioty gives one the support of the wholo community. If you are admired and loved by those your pupils admiro and live, they are unger to forlun wut your plans instead of being guaded to it, and the more widely you exert among the people outside your school the same influence you exert in school, so much the mure poworfully the combined energy of the whole villuge will work toward the ends you consider vaiuable.

## PROMOTIONS.

It can hover be a hmdness to advance a scholar prematurely. The great lessons of thoroughess and industry are didom learned in a school where good scholarship as a condition of promotion is not rigidly insisted upon, and if it could be shown that the matter of grading had nu intluence upon the formation of character, it would still be true that the discipline and culture gained by repeating half-learned studina is always bettor than a premature advancement to branches for which the pupil is unfit. Great injury is often done to children by their parents or teachers in permitting them to discuntinue elementary or fundamental subjects of study, before they have fairly mastered them. Nothing is more valuable in education than the habit of painstaking perseverance. He who has hecome accustomed, while a schona boy, to master difficulties and persevere till his task is accomplished, can hardly fail to make a successful aind useful man. In all pussible ways the school should inculcate habitual thoroughness and persistent application, and one of the ways in which this important lesson may be taught, is by insisting that real merit, as evinced hy good scholarship, shall be an invariable requisite to promotion.

Again, cach study is an integral part of the curriculum and essenial to its completencss. Different branches exercise and improve different faculties. Each gives a certain tone and direction to the intellectual training, and the rebult of these various forces, blended with native ondowment, is the mental power which each graduate possesses. If culturo and ability result from school work and influences, it must follow that if any part of these influences bo withdrawn, the culture will, to that extent, be deprived of its symmetry and power In general, academic students cannot safely be allowed much uption in the arrangement of their cuurse of study. In must cases it will be found that the branch for which such scholars manfest a distaste, is the very one that is needed to develop faculties which ${ }^{3} \mathrm{c}$ yet weak. To permit them at so early an age to concentrate their interest and effort upon favrite studies, will necessarily produce an unsymuetrical develepment The norld is already two full of unbalanced minds. Men of sound judgment, whose faculties act in harmony and with vigor, are wanted; not those who see all subjucts in a distorted light. For this reason: and because the knowledge affurded by each subject is useful in itself, wo insist that schulars shall du satisfactury work in each study.

Students who are "kept back" not only regret what seems to them a luss of time, but also feel diagraced to go into a lower class. This feeling may be natural, but it is clearly a mistake and ought
not tos stand in the way of the real interests of the soholar. It is not strange that some should fall bohind on nccount of poor health or immaturity. All do not learn with oqual facility, and not unfrequently a persun whose mind aits slowly will prove to bo capable of oxcellont attrinments in the onl. Nor shonld it be cunsidored an evidence of supuriority that un is mental puwers dovelupo less rapidly. But even if this were the case and if the pupils were not bonefited by ropeating a year uf unsatisfactory work, it would still be sight and necessary to enforce a grading of the school. Tho greatest good of the groatest nnmber would requiro that a scholar who was not ablo to keep up should be transforred to a lower class, and no une will soriously argue that the standard should be lowored. It will rather bo vur aim to stoadily advance our standard of scholarship. - John E. Bradley, Principal Albany (N. Y.) High School.

## HEALTH IN THE SCHOOL.

Henlth in school-chil 'ren is the first condition of goodinie!lectual work. This principle is often disregnrded by our most conscientious teachers, and the neglect of the physical side of the child's nacure ofton leads to the most disastrous results. In the first place the teacher should inquire into the bodily ability and vitality of his pupil, and learn at the outset as much as possiblo of his temperament, tendencies, and temptations. A sound body must possess a sound mind. Of forty children mo two lave tho same strength of mind, size of lungs, and working-force of the brain, condition of nervous system, quality of voice, gait, address, etc., no more than any two resemble each othor in the form and the features of the face. Here is a boy with the lungs of a stentor; there one is flat chested, with flabby muscles and weak constitution. Here is a girl with rosy cheeks and vigorous menial action; there another, pale, almost kloodless in cheek, heart, and brain. All are in the Arithmetic class. The same lesson is assigned to the four. Is it probable that all will grasp the principles and their application equally quick, or express them with equal clearness and nccuracy? Not at all; and the teacher who attempts the impossible either in restraining the strong to meet the capacity of the weaker, or of spurring on the weak to equal the stronger, is doing an injustice to the physical and intellectual natures of both, and should be punished by tho Society for the Prevention of Cruelty to Ohildren. The first purpose of tho teacher should be to presurve the ruddy cheek and the strong muscle of the strong, and, if possibic, by the best conditions of study, exercise, etc., to make them more vigoruus and healthful ; and on the other hand a more important duty rests on the teacher relating to the over-nervous, bloodless, and less-vital children. To tax these to their utmost is cruelty, and to cause their bodies to weaken under study, is a costly and expensive performance. That is the best school where the dull unes have thu best chance, because they need it the most, and where the weak ones can get a better hold on life, its vital forces and supports, that they may not fail in the supreme hour of life's trials and temptations. To equalize as far as possible the conditions of healthy manhood and womanhood, teachers should study to educite the child physically, by pruper light, heat, ventilation, exercise, and study; by removing all preventable causes of disease from the school-room, and watching lest contagious or infectious diseases cume within the schwol premises. Those who can graduate healthy children with medium attainments are superior instructors of youth to those who press the intelloct at the expense of the bodily powers, and who send out into tho world a class of physical weaklings, top heayy, to. be turned upside down in the world's struggle.-The Public School.

## flotex and flcus.

## ONTARIO.

Mr. J. D. MeTi.: ve has beonappointed head master of the Murmy Street sopara'o school, Peterborough, in the place of Mr. M. O'Brien who has accepted a similar position in the Lindsay separato school. Miss C. Leomard is ungaged as first assistant and Miss E. Hurloy rotains hor phacu as secund assistant. Miss Ellie I. Neagle is teachor of the first ward school. Mr. Mollmoylo is roported to be a toacher of oxporionce and considorableability and good results are expected from his appointment.

The attendance at Nowburgh high school, David Hicks, B.A., head master, is larger now than it has been for some years. Mr. Ansun Aylsworth has been appointed assistant teachor.

The Nen burgh schoed board decided to place the third and fourth book elasses of the public school undor the charge of Mr. Linsdale whoso salary has been increased to $\$ 000$ in consequence of the additional work.
G. A. Smith, B. A. Jas received the appointment of science master in Lindsay high school, W. E. Tilloy, M.A., head master.

London collegiato institute has boen farorably reported on by I. E. Hodgson, M.A., high school inspector.

Mr. J. H. Allin, of Orono, has transferred his services to S. S. No. 3, Danlington. Ballyduf. He lans won warm oncomimms from the residents of Orono for hes aibility as a teacher and his kind, courteous demeanour.

Dr. J. A. McIellan, high school inspector, has made a report on the Perth collegiate institute, in which he states, "I am of opinion that the school suffors from the frequent clanges in the staff: There cannot be any fair degree of persoverance so lung as the board continues to pay assistants but little more tham half the amount thoy pay the head master. I believe t. o salaries of the essistant mastors are lower than thuse paid in any other collegiate anstitute. Such a man as Mr. Janieson (English Master) is certainly very porrly renumerated at $\$ 700$."

Mr. Ballantyne, M. P.P., spoke some friendly words for teachers, in the discussion on the item in the estimates for the superannuated teachers' fund, last month. Ho concluded his ramarks by saying that teachers were not well paid, and he thought that those entering the profession would not care to be put un the superannuation fund, but would prefer to spond their money as they pleased. He belived the reason of the presont scarcity of teachers was oving to the increased sevority of the qualifying examination, and hoped that if salaries were not to bo raised, there would be no further attompt to make the standard higher.

A case of considerable interest was heard at Plattsville last month before Jared Kilborn, J, P., and David Peat and John Shearer as associate magistrates. Tho plaintiff, David Sillors, teacher of S. S. No. $\overline{5}$, in the township of Blandford, complained that Wm. Brash did on the 18th ultimo, assuult the teacher, and use profane and indecent langunge, and interfere with the order of the schnol. The case was fully substantiated by Janes Smith aged 16, Thos. Forbes aged 15, and Robert Hughes, aged 13 years The defendant put in a defence, but lost the case. Find 84 and costs, nmounting to $\$ 11.50$.

Dr. McGuigan haa been appointed professor of botany at the Western university.
Mr. H. W. Hoover, who, a short tume since was principal of Hagorsvalle union school, has been appuinted head master of the Danville, P. Q., graded school. He possesses many qualities which ominently fit him for the onerous and responsiblo position he is about to fill; and the mombers of theschool board, and other friends in Danville, are to be congratulated in having secured Mr. Boover's services, as ho is reputed. to bo a diligent and successful teacher

Mr. Tart, who came to Highland Creek su highly recommended from the Port Cnion school, is giving good satisfaction, as was expected. He lias alrendy won the esteem of the pupils, and no doubt his labors as an earnest instructor will be as much appreciated here as in his late school, and he will assuredly gain the same respect in thus section as was so manifestly shown by the very handsome memento and address he was presented with at his departure from Pört Union.

Domill college for ladies, Oshawn, oponed last week vith a good aitendance.

The attendance in the difforont departments of tho Brampton model schovl, of which Mr. A. Norton is head mastor, is vory good. Sixteen teachers in training wero examined at the close of the term and all passed. Mr. Welsll, who was head master of the model school, has been appointed nssistant in Guelph high school.

Some mprovements and alterations have lately been effected in Brampton high schuol, to meve the demands of a largoly increased attendance, and additions have been made to the stali of teachers. The head master, Alex Murray, M.A., takes sonior $n$ athematics and classics ; D. S. Patterson, B. A. ('luronto Univ., gold medallist), lite head master Chatham high sehool, takes Enghish and mudorn languages ; J. Hume. BA., (Qucen's Cniv.) instructs tho jumiors in science and mathematics ; and T. Blain, B.A., ('lormento Unip.) is the assistant classical master. The pupils have nearly completed arrangements for the formation of a Literary Society in comnection with the high school and we hope to be able to repuit progress in this matter vory shurtly.

## MANITOBA.

Four additional teachers have recently been employed for the Winnipeg schools, to enter upon thoir duties on the first Tuesilay in February.

The examination of the pupils of the normal school is now in progross, the examiners being the superintendent of education, the inspuctor of city school, the principal, and the principal teachers in the city selenole.
A collegiate dopartment has been (qened in connection with the Portago-la-Prairio schools with Silvanus Phillips, B. A., lately from Ontario, as its teacher. 'There are nuw eight teachers at Portage-la-Prairic.

The authurities of St. John's college have just signed a contract for the erection of the north wing of their new college and the varden's residonce. The sum to be paid is $\$ 46,500$, and the work is to be completed by the end of December next.

Messrs. Heber Archibald, B. A., of the frm of Archibald Howell © Vivian, and W. R. Muloch, B. A., of the firm of Bain, Blanclard © Muluok, buth graduates of Turonto university, have been appointed membors of the council of St. John's college, and the authorities of Manitoba collego have appointed John F. Bain, B. A., of Qucen's university a momber of their college council.

The Rev. A. L. Parker, M.A., felluw of St. John's college was admatted to the pricsthoul on Sunday, Janu.ry 7 th, by the most Rev. the metropulitan of Rupert's Land.

An Eughsh suctety has lately promised $£ 1000$ stg. tuwards the ondorment fund of St. John's col!ege.

## NOVA SCOTIA.

Mr. W. S. J. Davidsun, teacher of the advanced department of the Clementspurt (Annapolis Co.) schuol was found dead in his bed on the morning of Thursday, Decomber 28th.
Dr. Honoyman, cumator of the provincial museum, has completed the Nova Scotia collection of marine invertebrates and small fishes for tho grent fishery exhibition in Londın. Dr. Honeyman holds a high rank among our Canadian naturalists.

The exccutne commattee of the provincial educational association met in the committeu room of the legislative council chamber, Halifax; on the 3rd ult. The chiof business of the meating was the preparation of a programme of exercises for the next annual session of the association. It is understood that very satisfactory arrangements wore offected. Several menubers of the committee strungly urged that Halifan should bo chusen as the place for the ensuing meeting. This point was not finally deciden.

The report of the associated alumni of Acadia college for 1882 is an interesting volume. Its preface describes with some minuteness an important change which has recently been effected in the constitution of the goremug organism of the cullego. This is henceforth to be knuwn as "the Senete of the Cnirersity of Acadia Cullege." The functions of the senate pertain chietly to the internal management of the college. Tho senate is composed of the Faculty, Fellows and Scholars of the university. The Fellows sre six graduates su appointed. by tho governurs un nomination of the Faculty, the Schulars, twelvegraduates su appininted by the governors on nomination of the associated Alumni. The Fellows are ece-officio mombers of the Board of Govemors. A large part of the report is occupied with the address delivered at the service held in June last to commemornte the iabors and achiovements of the late Dr. Cramp.

The committeo of the provincial educational association deputod to considor furthor the subject of aniform course of study for high schools andihigh school dopartmonts, also met at Halifax on the 3rd and 4 th ult. Soveral menbirs of the committee were unable to be prese $t$. The following were $m$ attendance: The principal and professor of the provincial normal sehool, the mathematical and English masters of the Halfax lugh schoni, armeipal McKny of Picton academy, mepuecturs lascoe and McKenze, and Messis. Denton, Owen and Lay, principals of the connty academies at Kent. villo, Lunenburg, and Amherst. It is hoped that the outcome of this conference will be a course capathle of being effectively carried wut in our adranced sehools.
The "Acadia Science Club ' prevously referred to m these notes has started a sclentalic monthly called गhe Acudian Sicientist. The Club is endeavouring to fuster the study of science by preseribing for its members a course of scientalic reading, and by founding examinations in certain subjects. The Sicientist contans some interesting articles. The following is the directorate of the Club: f'resident, A. E. Coldwell, A.M., instructor of natural science, Acadia college, Wolfville, N. S.; Ihirectors, Ihusioler!!, C. W. Roscoe, A.M., inspector of schools, Wolfville, N. S.; Geology, Alexander McKay, Esy., mathenatical master m Halifax high school, Dartumoth, N. S.: Butatu, A. H. Mckay, 13. Sc., princtpal Pictou academy, Pictuu, $\mathcal{N}$ S , Dithrol I'hilusuphy amed .istumomy, Prof. A. E. Coldwell, A.M., Woliville, N. S.; (liemistr!, J F. Godfrey, Esq. principal Windsor acadeny, WindsorN. S. ; Zoelony, A. J. Hneo, A. B., pmeipal high sehool, Wolfville, N. S. ; Mineralogy, S. K. Hitchings, B. Sc., state assayer and prmenpal high schud, Biddefurd, Maine, Secotu!! and Trasurer, A. J. Pineo, A. B., Wolfville, N. S.

Alexander McLeod, Fisq., a merchant of Halifax, recently deceased, bequeathed the residuary interest of his large estate to Dalhousie college. The bequest is estimated to be of a minimum value of $\$ 100,000$, and may not improbably amount to nearly double of that sum. The only coudition attached thereto is that the college must contmue non-sectarian in its character. The direct object is to enable the (iorernors to establish three additional professors.

## QIEBEC.

Bishop's college school, Lemnoxvalle, of which Her. Isaac Brock, M.A., is the rector, has largely increased in attendance this term. Ths school and the college are situated in one of the most beautiful and haalthy localities in the Province, and from what we saw of the interior arringements of the school, there is mothing meglected which can tend to the comfort and physical welfare of the pupils.
The Young Ladies' college at Duhbiatu, under the eflicient super intendance of Mrs. Hulden, principal, has nearls duubled ats attendance. The clusing exercises in Deceinker were so eredatable that cuasiderable interest in then was manifested an the aeghbor hood.

Mr. A. D. McQuarric is doing good work in 13uckingham school and lis efforts are well appreciated in the locality. He evidently is " abreast of the times," amd his school is a credit to him.

There is at present quite a large atiendance in the Imaustrial college, Lachute, of which Mr. C. S. Hullilay is head master. Mr. T. Haney, the English mastor, is spuhet of as an indefatigable, successful teacher.

School matters in Aylmer, (Que.) are greatly improved since the sppointment of Mr. Ralcigh J. Elhut as principal, who ss ahly assisted by Miss MeLean. If a better school huilding conld be obtained it wonld leave little else t., be deaired there ili educational matters.

The school commissioners of Danville have built as commodions, brich schioul house, capable of acculuasdating 200 puphls, minge of the academy which was burned in the conthagration that devastated a large portion of the cown last year. A head master from Ontarno has bech appointed, and classes will be furned fut three assistant teachers, by which means the conmissiuners hope the town wall be second to no other of a similar size in the province meducational advantages.

It is a pity that a larger amount of departmental ad camot be given to the Magug model school, as the work done in it by the, principne, Mr. W. H. Mnyo, and his assistants, is acknowledged to, be most satisfactory. The school building is a credit tw the town in external appearance and interior arrangement, and the school commissioners take much pride in maintaining its good condition.

The academy at Stanbridge East is making good progress under the head mastership of Mr. Alson Burnett.

Mr. J. MoIntosh has a very largo attendance in the Grauby high school and his efficient labors are much appreciated in the town. In thodistrict school Miss MoLuan, who is a thoroughly progressive teacher, is doing good, earnost work. Some important improve. ments in school arrangements are spoken of as contemplated by the school commissioners, which if carried into effect will result in a better phan for advancement to the high school, and introduce the benofits of the graded system.

Mr. K. M. Campbell has greatly improved the high school, at Three livers, since his appointment, and his efforts have met with every encouragement on the part of the school board. The attendance has increased ovor 300 per cent, and the greatest antisfaction is felt at the result of his judicious and efficient management. We are pleased to know of his success.

## REVIEW.

 the large number and great sariety of illustrated perionlical literature for juseniles this leautiful monthly magraine wecupies a prominent position. It is fincly illustratel and contains some attractue stories which, in the number for Jannary (vol. iv. No. 1), are descriptive of Christmas scenes in "Merrie" Englond, Germany, Egypt, and Australia. The geographical coloring thus given tends to encourage a taste for a branch of study generally more useful than interesting, and makes this class of supplemental reading serve a double purpose: Price $\$ 1.00$ a yenr.

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magazines.
 promalarnt theolosiana, representin; as many religions denominations, give expression to their views upon thequestion of the "Hevision of Crealx" Prof. Alexander Winchell, in ans article entitled "The experiment of Tnivernal Suffrace," institutee a profound inquig into the crentinl conditions of stabhe popular gavenument. which ho finds to kc , sulstantially, virtuc and intelligence; brt the conilisions, ho maintalus, are absolutely unattainahle under our existing political syztenn, where an electorato either tgnorant or sicious, or both, by the mere force of superior nualuers practically nallifics the suffrages of the better and uiscr portion of the proyle, whote right to control the forcmuent of the commonsealth is grounded in the iery , uature of thin;s. Bishop Diequaid writes of "The Decay of Protentantiom," and in an cexay to prove his thesia, makes a vers adroft use of the adurissions of proterant writers. "Tho Poiliteal bitua, tion " is the joint titlo of two articles, the one by Horatio Seymour, the other by Geo. S. Boutwell, who offer their resjective views ujon the causes of the recent overthrow of the Itequblican part!. An article by Lr. D. A. Sargent, on "Physical Edocation in Coilezes" treate a sulject of brime importance to the wellare of the youths in our higher educational inatitution. Finally, there are invartecici on The Standard on Company." Eenatyr Camike at Wext Virpinia defendug that eurnoration agnase its ascoilants, and Johu C. Welch setting forth the reasona fot conternining it ana dangerons monopoly. Pahbinhel at so Ialaycete Place, Xew York.

## GLEANINGS.

For love is eser the leginning of know ledge, as fire is of light.-Curlyle. Of all consolations, worh is the most fortifying and the most healthy, lecause it solaces a man not by bringing him ease, but hy rectuiring eflort.-Tuinr.
When the fireck Aleximander was told that the very boys laughed at his singing, he replied, "Then I must learn to sing better.'
We of ohd Miletus have leen always taught that worls should be sulu. ordinate to ideas, nal we never phace the pedestal on the heal of the statue- Canilor.
Indignation may ofters be averted, offence nioidel, or, good will securef, hy the choice of smooth words, or the reverse effect may be produced hy the use of opprobinious epithicts. Schuyler.
What is clone for effect is seen to be done for effect, what is done for love is felt to be done for love. A man inspims affection and hunor, lrecarse he was not lying in wail for these.-Emeraon.
How few of us often stop to shink of the low ends aimed at in cdacetion, or the imperfort methods, or how little we really know abont the trio phis. nanply of trarhing In teaching, labour in the inexorablo condition of sucrews To be good teaciers, we mu-t ie good learners, -not satisfied to tread former the tread mill of routine, $\operatorname{sit}$ tan further, and nase no hugher. We must knok at the dour of knowied ${ }^{n}$ - befure it will he opened.-A. S. Abbotf, Tora.


[^0]:    "A, F. Blaisdell, M.D., in the Virginia Fducational Jourral,

[^1]:    - Fivir tho Boston Public School.

[^2]:    - Tha buttons soold reprosent tice co,

