The institute has attempted to obtain the best original copy available for filming. Features of this copy which may be bibliographical: / unique, which may alter any of the images in the . eproduction, or which may significantly change the usual method of filming, are checked below.


Coloured covers/
Couverture de couleur


Covers damaged/
Couverture endommagée


Covers restored and/or laminated/
Couverture restaurée et/ou pelliculée

$\square$
Cover title missing/
Le titre de couverture manque


Coloured maps/
Cartes géographiques en couleur

Coloured ink (i.e. other than blue or black)/
Encre de couleur (i.e. autre que bleue ou noire)


Coloured plates and/or illustrations/
Planches et/ou illustrations en couleur


Bound with other material/
Relië avec d'autres documents

Tight binding may cause shadows or distortion along interior margin/
La reliure serrée peut causer de l'ombre ou de la distorsion le long de la marge intérieure

Blank leaves added during restoration may appear within the text. Whenever possible, these have been omitted from filming/
Il se peut que certaines pages bianches ajoutées lors d'une restauration apparaissent dans le texte, mais, lorsque cela était possible, ces paşes n'ont pas étẽ filmées.

Additional comments:/
Commentaires supplémentaires:

L'Institut a microfilmé le meilleur exemplaire qu'il lui a été possible de se procurer. Les détails de cet exemplaire qui sont peut-être uniques dus point de vue bibliographique, qui peuvent modifier une image reproduite, ou qui peuvent exiger une modification dans la méthode normale de filmage sont indiqués ci-dessous.


Coloured pages/
Pages de couleurPages damaged/
Pages endommagéesPages restored and/or laminated/
Pages restaurées et/ou pelliculées

$\square$
Pages discoloured, stained or foxed/
Pages décolorées, tachetées ou piquéesPáges detached/
Pages détachées


Showthrough/
TransparenceQuality of print varies/
Qualité inégale de l'impressionCon: uous pagination/
Pagination continueIncludes index(es)/
Comprend un (des) index

Title on header taken from:/
Le titre de l'en-téte provient:Title page of issue/
Page de titre de la livraisonCaption of issue/
Titre de départ de la livraison


Masthead/
Générique (périodiques) de la livraison

This item is filmed at the reduction ratio checked below/ Ce document est filmé au taux de réduction indiqué ci-dessous.


## No. 5.

## THE

## EOUCATONAL CIRCULAR.

The Chief Superintendent shall, in his discretion, forward to the Trustees of each District, a semiammual Circular, containing official notices, cducational information, and especiall, a detailed statement of the Provincial Grants paid to Teachers, and the apportionment of the County Assessment Fund to Trustecs. These Circulars shall be permanently filed by the Trustecs, and shali be accessible to Teachers in ead Districh - RRo. 43 of the board of Enucation of Nem brunsmich.

PRINTED FOR THE EDUCATION DEPARTMENT,
BV D. G. SMITH, CHATHAM, N. B.

## No. 5.

## TFE <br> EDUCATIONAL CIRCULAR.

Regulation 43 of the Board of Educatios.-'The Chief Superintendent shall, in his discretion, forward to the Trustees of each District a semi-amual Circular, containing official notices, educational information, and especially a detailed statement of the Provincial Grants paid to Teachers, and the apportionment of the County Asssessment Fund to Trustees. These Circulars shall be permanently filed by the Trustees, and shall be accessible to Teachers in each District.

> THEODORE H. RAND, Chirf Supt. of Education.

Education Office,
Fredericton, N. B., April 23rd, 1877.

DISBURSEMENT OF PROVINCLAL GRANTS AND APPORTIONMENT OF THE COUNTY FUND FOR THE SUMMER TERM ENDED OCTOBER 31, 1876.

In St. John, Portland, Fredericton, Woodstock, St. Stephen, Milltown, St. Andrews, Moncton, Newcastle, and No. 1, Chatham, there were 99 teaching days in this Term; and in all other School Districts, 109. In apportioning the Provincial Grants and County Fund to the Cities and Towns ahove named, the time the Schools were open and the attendance made, were raised to the basis of 109 days-the full term required of the Schools in the country.

In the following statement, names in Small Capitals indicate the Teachers who received the Superior School Grant. This Grant cannot exceed $\$ 150$ per Term. Names in Italics indicate the Teachers who taught in poor Districts, and whose Grants, and those to the Trustees from the County Fund, were increased onethird over the ordinary amounts. The Grants to Class-Room Assistants (c. r. a.) are one-half the ordinary Grants to Teachers, according to the class of License. The ordinary School Grants per Term are as follows: M. $1, \$ 75 ;$ M. $2, \$ 60 ;$ M. 3, $\$ 45$. F. 1, \$5.5; F. $2, \$ 4.5 ;$ F. $3, \$ 35$.

Drafts for the amounts named in this Circular were duly transmitted to the Inspectors, as required by Regulation 41, in December last.

## COUNTY OF ALBERT.



COUNTY OF ALBERT.-Continued.


COUNTY OF CARLETON.


COUNTY OF CARLETON.-Continued.


## COUNTY OF CARLETON.-CONTINUED.



COUNTY OF CHARLOTTE.


## COUNTY OF CHARLOTTE.-Continued.



COUNTY OF GLOUCESTER.


COUNTY OF KENT.


## COUNTY OF KENT．－Continued．

| Prov＇l Grant to Teachers． | LOCALITY． | County Fund to Trustees． |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 ！ |  |  |  |  | MOUN2 |  |
|  |  |  |  |  |  |  |
| 怱品 |  | 気， | \％ | 끈 | 800 |  |
| －כe |  | － | 可包 | － | E |  |
| 䞠율 |  | 帚 | \％ |  | ¢ | 훌． |
| NAME．．気気 E | Pakish． | －डे ${ }^{\text {d }}$ | 它気 | $5$ | ¢ | 起 |
| 或宗 |  | 京 | 亏¢ | $\stackrel{0}{\underline{\mathrm{O}}}$ |  | 号 |
| －言会 |  | ）${ }_{\text {a }}^{\text {a }}$ 吅 | 己゙せ | 水家 | 合克 | 응 |
| 宝気 気 |  | － | 틀 | ${ }_{0}{ }^{\circ}$ | 얼클 | 気 |
|  |  |  |  | 号 | 응 | 5 |
|  |  |  |  | $0^{=}$ | 吕总 | $\stackrel{0}{5}$ |
|  | 2 | 1123 |  |  |  |  |
| Uaniel Gillis．．．．．．．．．． 3107 ｜S14 17 | gton．． | 1110 | 3009 | \＄14 7 2 | 1510 | 855－42 |
| Syd P．Fayle．．．．．．．．．：3i 88 ／ 36331 |  | $2{ }^{2} 54.42$ | 11！0 | 1211 | 1575 | 2759 |
| Annic E．Hurd．．．．．．． 3104043391 | de Sth Mary | 3\}1101 25 | 179. | － 1431 | 23 S1 | 3512 |
| Nary Mchuril．．．．．．．．1；109 73 33，V | llingtnu．．． | 4 109： 46 | 279 | 2000 |  | 56 SH |
| Vary Allanach．．．．．． 3105 44 96， | ＂． | 51105 | 523 | 1026 | 6 64 | ${ }^{26} 20$ |
| Cril Cormier．．．．．．．． 31061 43 97 | ＊ | 7 1003 27 | 2145 | 1468 | 1519 | 2985 |
| Eilen Chrystall．．．．．．． 2105 44 58 | ، | 5 10s 41 |  | 1480 | 2956 | 4442 |
| Aug．Passarriew．．．．．． $\mathbf{3}^{\text {a }} 10014500$ | ، | 101109 51 | 26051 | 1500 | 3560 | 5068 |
|  |  | 気 |  |  | $\xrightarrow{\sim}$ |  |

## COUNTY OF KINGS．



COUNTY OF KINGS.-CONTINUED.


COUNTY OF KINGS.-Continued.


COUNTY OF KINGS.-Con'rinued.


COUNTY OF MADAWASKA.


COUNTY OF MADAWASKA.-Continued.


## COUNTY OF NORTHUMBERLAND.



COUNTY OF NORTHUMBERLA:ND.-CONTINUEI.


## COUNTY OF NORTTHUMBERLAND.-CONTINUED.



COUNTY OT QUEENS.


## COUNTY OF QUEENS.-Continued.



## COTNTY OF RESTIGOUCHE.



COUNTY OF RESTIGOUCHE.-CONTINUED.


COUNTY OF SAINT JOHN.


COUNTY OF SAINT JORN.-Continued.


## (OUN'SY OF SAINT JUHN.--CONTINUED.



## COUNTY OF SAINT JOHN.-CONTINUED.



COUNTY OF SUNBURY.


## COUNTY OF VICTORIA.




## COUNTY OF WESTMORLAND.-CONTINUED.



## COUNTY IF WESTMORLAND:-Conrinued.



COUNTY OF YORK.


## COUNTY OF YORK.-Continued.



## COUNTY OF ÝORK.-Continued.



COUNTY OF YORK-CONTINUED.


GRAMMIMAR BCEIOOIE.

| COUNTIES. | LOCATION. | PRINCIPALS. | Legally <br> authorized <br> dayzs <br> Principals <br> Department <br> opon. | Amount of Governm't Grant. |
| :---: | :---: | :---: | :---: | :---: |
| Albert, | Hopewell, | Bamford W. Duffy, | 109 | \$200 00 |
| Carleton, | Woodstock, | James MicCoy, | 99 | 20000 |
| Charlotte, | St. Androws, | James F. Covey, A. B., | 99 | 20000 |
| Gloucester, | Bathurst, | ( J. Arthur Freeze, A. B., | 49 | 8991 |
| Eloucester, | Bathurst, | 1 Geo. W. Mersereau, A. B., | 27 | 4954 |
| Kent, | Richibucto, | Ingram B. Oakes, A. B., | 109 | 20000 |
| Kings, | ${ }^{\times} \mathrm{Hampton}$, | John Raymond, .- | 6 mo . | 20090 |
| Northumberland, | Chathan, | E. H. McAlpine, A. B., | 109 | 20000 |
| Queens, | Garetown, | Philip Cox, A. B., | 109 | 20000 |
| Restigouche, |  |  | 109 | 20000 |
| St. John, | St. John Cíty, | Rev. Chas. G. Coster, Ph. D., | 99 | $+30000$ |
| Sunbury, | Sheffleld, | E. M. S. Fenety, A. B., - | 109 | 20000 |
| Victoria, | Grand Falls, | S. H. Parsons, A. B., | 109 | 20000 |
| Westmorland, | Shediac, | id. B. Whito, | 1033 | 18980 |
| York, | Fredericton, | 'Gcorge R. Parkin, A. M., |  | 150000 |
|  |  | 1 |  | 83,129.35 |

*Not in Union.
$\dagger$ Government aid paid through the Secretary of Board of Trustees.
! Government aid paid from University Grant.

AbsickACIT- For the Term ended 31st October, 1878.

| counties. |  | $\begin{aligned} & \text { No. of Teachers } \\ & \text { employed. } \end{aligned}$ | 范 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Albert, | 61 | 63 | \%,086 51 | 2,906 | 81,611 22 | 3,050 |
| Carloton, | 105 | 108 | 5,036 32 | 4,080 | 2,990 70 | 5,767 |
| Charlotte, | 119 | 122 | 5,798 82 | 5,180 | 3,882 30 | 6,447 |
| Gloucester, | 44 | 45 | 2,018 31 | 1,867 | 2,821 50 | 2,184 |
| Kent, | 66 | 68 | 2,990 49 | 2,593 | 2.86515 | 2,702 |
| Kings, | 141 | 142 | 7,260 92 | 5,020 | 3,688 85 | 6.757 |
| ladaruaska, | 32 | 33 | 1,314 44 | 1.130 | 1,500 00 | 1,279 |
| Northumberland. | 95 | 102 | 4,435 35 | 3,971 | 3,017 40 | 4,774 |
| Queens, | 70 | 70 | 3,577 90 | 2,390 | 2,077 05 | 3,683 |
| Restigouche ${ }_{\text {, }}$ | 27 | 29 | 1.42S 01 | 1,137 | 83625 | 1,436 |
| Sainit Jolm, | 163 | 171 | 9,019 07 | 8,405 | 7,845 45 | 9,424 |
| Sunbury, | 40 | 41 | 2,058 96 | 1,359 | 1,023 60 | 1,756 |
| Victoria, | 28 | 28 | 1,250 63 | 919: | 06105 | 1,138 |
| Westnorland, | 121 | 129 | 6,235 43 | 5,514 | 4,397 67 | 6,918 |
| York; | $15 \%$ | 108 | 7,S42 50 | 5,760 | 3,170 10. | 7,275 |
| Grammiar sichools, | 1,274 | 1.320 | 503,365 3,120 85 | 52,020 | 842,386 39 | 64,689 |
| Total; | 1,274 | 1,320 | 1806,404 S7 | 52,020 | 1842,388 39 | 64;659 |

## EXTRACTS FROM THE LAST EDUCATION REPORT.

ATHENDANOE OF PUPILS FROM 1861 TO OOTOBER 31st, 1876.

|  | wistra. | Sunari. | durino tus yxar |
| :---: | :---: | :---: | :---: |
| 1861. | 25,618 | 27,982 |  |
| 1862. | 26,401 | 28,630 |  |
| 1863. | 27,078 | 28,487 |  |
| 1864. | 27,171 | 30,632 |  |
| 1865. | 27,879 | 30,496 | - |
| 1866. | 28,333 | 30,264 | + |
| 1867. | 28,725 | 31,364 | O |
| 1868. | 28,226 | 31,988 | ¢ |
| 1869. | 30,431 | 33,327 | $\stackrel{\square}{0}$ |
| 1870. | 31,487 | 34,336 | 号 |
| 1871. | 32,673 | 33,981 |  |
| 1872. | 28,756 | 39,83y |  |
| 1873. | 40,405 | 42.611 |  |
| 1874. | 44,785 | 45,561 |  |
| $18 \% 5$. | 46,039 | 48,340 | 62,349. |
| 1876. | 47,870 | 52,020 | 64,689. |

## Regularity of Attendance of Pupils.

The Inspectors for Albert, Queens, Victor.a, Westmorland, and - York, each make special reference to the irregularity of attendance, and they, with the Inspector for Charlotte, strongly recommend the enactment of a compulsory provision respecting School attendance. On the introduction of the Free Schools Act, two reasons were adduced by many persons to show that the average attendance of pupils must lue less regular under the present system than under the one which preceded it. It was urged that as subscription was abolished, one incentive to regularity of attendance was removed, for those who subscribed generally made it a point to receive the largest possible return for their subscription. It was less frequently urged, but with more force, that Schools being free, a large number who knew little of the benefits of education, and cared very little for them as well, would be enrolled in the Schools, but the irregularity of their attendance would be such as to seriously lower the percentage of the daily average. These criticisms do not really involve the points they were intended to serve by those who urged them; for, their correctness being admitted, the necessity of a vigorous system of free education is made only the more apparent.

A comparison, however, of the School attendance under the Free Schools Act with that under the Parish Schools Act, shows that the
greater inherent energy and momentum of the present system have not only added 53.09 per cent．of names to the School rolls dur－ ing the five years of its operation（against 12.27 per cent of the previous law during an equivalent period），but have actually se－ cured a larger average attendance of these pupils than was had under the more limited and select enrolment of the previous law． The following is the comparative statement：－

Percentage of enrolled pupils for the Province in daily attendance from 1876 to 1871 ，

WINTER．SUMMER．
Do．do．from 1872 to 1876，．：：－${ }_{56.02}^{52.38}$
The following Comparative Statement exhibits the percentage of attendance for each term during the last five years＇operation of the Parish Schools Act，and the first five years＇of the Free Schools Act．The figures relating to the fragments of the Term connected with the expiry of the previous law and the introduc－ tion of the present one are，for obvious reasons，excluded in these exhibits of percentages ：－

HALF－YEARLY PERCENTAGE
Of Envolled Pupils for the Province in Daily attendance from 1807 to 187 E ．

| $\begin{aligned} & \dot{\sim} \\ & \stackrel{\dot{x}}{\underset{\sim}{x}} \\ & \stackrel{x}{x} \end{aligned}$ | 蒿 |  | $\begin{aligned} & \text { 言 } \\ & \text { 范 } \\ & \text { تٍ } \end{aligned}$ |  |  |  |  |  |  |  | 安 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | W． | S． | W． | S． | W． | S． | W． | S． |  | S． | W． | S． |  | S． |  | S． |
| 1867 | 48.5 | 48.0 | 50.0 | 48.4 | 49.3 | 47.9 |  | 56．4 | 53.9 | 57.1 | 49.3 | 47.3 |  | $\cdots$ | 49.6 | 50.2 |
| 1888 | 50.6 | 49.5 | 50.8 | 52.4 | 53.8 | 51.2 | 58.7 | 57.0 | 53.0 | 55.3 | 50.0 | 49.6 |  | ．． | 53.7 | 50.6 |
| 1869. | 50．03 | 49.72 | 53.73 | 48．59 | ｜51．56｜ | 50.61 | 55.48 | 55.50 | 59．53 | 57.21 | 151.67 | 51.16 |  | ． | 52.80 | ｜50．87 |
| 1870 | 49.36 | 48.63 | 5175 | 51.56 | 56.36 | 49.20 | 57.83 | 58.27 | 53．41 | 50.30 | 50.34 | 48.49 |  | ． | 52.71 | 52.00 |
| 1871. | 43.83 | 48.89 | 55.35 | 52.18 | 55.86 | 51.77 | 51．19！ | 63．79 | 158．40 | 54.72 | 51.19 | 48.07 | ． | ． | 52.04 | 51.40 |
| 1872. | ${ }^{*}$ | 48.72 | ${ }_{5}{ }^{\circ}$ | 50.20 | $\because$ | 52.63 | ${ }_{5}$ | 52－69 | $\cdots$ | 48.69 | $1{ }^{\circ}$ | 45.93 |  | $\cdots$ | 51 | ${ }^{46.76}$ |
| 1873. | 52.49 | 50.40 | 59．74 | 48.83 | 58.63 | 59.27 | 157．60 | 54.87 | 49． | 51.18 | 52．80： | 50．64 |  |  | 51.49 | 49．50 |
| 1874．．． | ${ }^{55.791}$ | 50.55 | 55．05 | 51.54 | 60.09 | 50．65 | 62， 41 | 56.21 | 55.75 | 59.08 | 55.73 | 50.19 |  |  | 53.85 | 150.31 |
| 1875．． | 5243 | 48.97 | 53.95 | 45.85 | 58.39 | 54.50 | 61.04 | 50.42 | 53.71 | 43.46 | 50.68 | 49.68 |  | ＋65．8 | 5056 | 50.19 |
| 1878．． | 57．80｜ | 51.29 | 53. | 48．14 | 100.12 | 55.68 | 60.29 | 52－54 | 57.00 | 52.48 | ．52．35 | 50.16 | 67.73 | 53.81 | 150.68 | ［48．18 |



The terminal number of enrolled pupils during the periods included in the foregoing Table, was as follows:Winter Trim.

An average of

The percentage of enrolled pupils in daily attendance at the Schools embraced within the Cities and Incorporated Towns under both the old law and the new law, is shown in the following Table. The attendance for these Districts is included in the Table immediately preceding.

## PERCENTAGE, OF ENROLLED PUPILS

Daily present on an acerage in the School Districts embracing the Cities and Incorporated Towns dering the lust five Jears of the Parish Schools Act, and the first Five l'ears of the Frce Schools Act. (The percentages are reckoned on a Term's, or half Year's attendance.)

| Saint John. |  |  | Portiand. |  | Fredericton. |  | St. Stephen. <br> W. | Milltown. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| School Year. | W. | S. | W. | S. |  |  |  | W. | S. |  |  |
| 1807 | 55.66 | 65.32 | 53.41 | 52.35 | 61,71 | 59,01 |  |  |  |  |  |
| 1808 | 50.45 | 60.27 | 5652 | 58.78 | 57,33 | 56,41 |  |  |  |  |  |
| 1869 | 6244 | 55.78 | 58.86 | 53.90 | 62,52 | 55,01 | The data for | a comp | arison | of the | aver- |
| 1870 | 59.06 | 5788 | 57.17 | 56.45 | 62,00 |  | age attendan | nce in t | hese Di | stricts. ${ }^{\text {d }}$ | do not |
| 1871 | 58.85 | 59.57 | 60.28 | 55.98 | 63,21 | 57,57 | exist. |  |  |  |  |
| 1872 |  | 78.28 |  | 56,00 |  | 62,49 | $09,48 \left\lvert\, \begin{aligned} & 64,98 \\ & 0,99\end{aligned}\right.$ |  | 74,15 74 |  | 56,20 |
| 1873 | 58.04 | 81.64 | 5893 | 58,90 | 62,42 | 60,45 | 69,48 65,19 | 71,90 | 74,05 | 58,60 | 5i,29 |
| 1874 | 70.69 | 66.07 | 59.34 | 60,04 | 02,58 | 63,55 | \|| 67,88 69,35 | 68,21 | 71,38 | 60,05 | 61,36 |
| 1875 1876 | 6818 69.33 | 66.19 67.13 | 58.70 04.25 | 59,47 62.50 | ${ }^{65,19}$ | 64, 64,35 | 69,91 73,13 <br> 74,95  <br> 76,03  | 69,74 69,08 | 71,42 6,78 | \|69,85 6 | 60,13 57 |

* A broken Term

Suggestions of these Tables.-A careful examination of the statistics submitted will confirm the most sanguine anticipations respecting the efficiency of the Free School System in the particular under consideration. It will also beget the conviction that the time has fully come when efforts may be successfully made to secure a regularity of attendance at school much in excess of that hitherto known in this Province. Irregular attendance is most harmful to the pupil and injurious to the School. It neutralizes in a very serious degree the most skilful plans of the wisest Teachers, and interferes grievously with every progressive course of instruction. The pupils that are most regular in their attendance are of necessity compelled to suffer loss in consequence of the irregularity of their fellows. A very large proportion of School absences arises from wholly unnecessary causes, and the effects of these absences are evil, and only evil, and that continually. I believe it is possible to bring the daily average attendance of pupils throughout the Province up to 75 per cent of the enrolled number. Were this accomplished, the amount of education given would be increased at least one quarter without the outlay of
scarcely a dollar's additional expense. The moral advantages secured through the formation of habits of punctuality and regularity would be of inestimable value to the pupils theinselves, and would powerfully tend towards the removal of those causes which engender friction in any system of School management:
Power of the Tecucher:-I do not propose to discuss the merits of a compulsory law to accomplish this most desirable object, for it appears to me that we have not yet systematically applied other and powerful means which are readily available. A healthy and well equipped School room being provided, no agent can exercise more power over the attendance of the pupils than a cheerful, painstaking, sympathetic Teacher. The absence of a pupil from School will be a matter for personal enquiry on the part of such a Teacher, and this practice, regularly pursued, can hardly fail to enlist the sympathy and co-operation of parents to a degree that must very largely diminish irregularity of attendance. Such a practice is also productive of many subsidiary benefits to both Teacher and scholars. The methods of School management, and especially of instruction, have also much to do with School attendance. If the exercises of the School are carefully adapted to the ages and temperaments of the children, with a view of making school life pleasant and happy, and the desire for knowledge is skilfully awakened and intelligently fostered, even very young children will become so fond of the school as to be willing to breast even the cold and stormy weather of our winter months 'with marked regularity, rather than absent themselves from the companionship of their Teacher and fellow pupils.

Attendance at the Model School.-I have not specially compared the regularity of attendance in our Primary Schools, but in support of what I have stated I adduce the percentage of the enrolled pupils daily present, during the past four years, at the Primary departments of the Model School. In the case of such young children-ranging from 5 to 9 years of age-there are many necessary cases of absence. The attendance on these departments was not stimulated by the awarding of prizes :-

Percentage of Emrolled Pupils daily present for the Ter:m.

| 1873, | 66.66 | 83.13 |
| :--- | :--- | :--- |
| 1874, | 84.33 | 82.72 |
| 1875, | 85.18 | 86.07 |
| 1876, | 85.90 | 80.66 |

Average during the four Winter Terms, 80.75 per cent. Do. do. Summer do. 83.02 do.

I know of no good reason why an equally high percentage is not possible in all the Schools of Fredericton, Saint John and of the Towns and Villages, especially under the steady application of the stimuli of which I have spoken, aided by those which I shall presently suggest. If this percentage be practicable in the large

Districts to which I have referred, I am confident that the intelligent application of the same means in other School Districts would soon so far diminish irregularity that the daily percentage for all the Schools of the Province would ere long reach three quarters of the total number enrolled, term by term. Of course it will be years before this point is reached, but it should be aimed after at once and persistently pursued. The increased facilities for the proper training of Teachers will render it possible to do much more than has hitherto leeen accomplished in this behalf, by securing more generally in the Schools the practice of the most approved methods of management and instruction, and awakening in Teachers enlarged conceptions of the responsibilities of their office.

Districts muking a good Attendance-The following is an exhibit of the School Districts of the Province, the daily average attendance of whose Schools for both Terms of the past year was upwards of two-thirds the number of pupils emrolled. The percentage of attendance in these Districts is also given in the Table for previous Terms, until it falls below 66 per cent.


The number of School Districts in the Province which made a daily attendance of upwards of 66 per cent. was 104 in the Summer Term, closed October 31st, 1876, and 145 in the Winter 'Term, closed April 30th, 187 ( 6 . The emrolled attendance in the 30 Districts which made this percentage during both Terms of 1876, was -in the Winter, 6,716 , with a daily average for the Term of 4,732 or 70.46 per cent.; and for the Summer, 5,695 , with a terminal average of 3,940 or 69.18 per cent. It will be observed that but three Counties have no place in the table-Carleton, Querns, and Restigouche-and that the rual districts are represented. It is evident that these Districts can, by diligent attention to their School interests, maintain that degree of regularity of attendance which they have already reached, while many, if not all of them, are in a position to secure yet greater regularity. It is evident, also, that no sufficient reason can be adduced why hundreds of Districts which have no place in the Table should not have reached as high a percentage as many that are there. What has been accomplished in these districts can, by reasonable diligence, bo unquestionably accomplished in hundreds of others, while there is no District in which the regularity of attendance can not be improved by wise and persistent efforts on the part of the School authorities.

School Prizes.-I would suggest that an important auxiliary to other means is available in School Prizes. Much has been written by educational authorities both in advocacy and in condemnation of Prizes; but all discussions of this subject which fail to take account of the conditions on winich prizes are awarded, overlook that which, in point of fact. really determines the legitimacy or illegitimacy, the benefit or injury, the wisdom or unwisdom of School prizes. To offer to children under fifteen years of age prizes for proficiency in special subjects is indirectly to offer inducements for the neglect of other school studies. The recipients. of such prizes will almost invariably be those who not only needed no extraordinary stim rlus in the direction in which it was furnished, but who, having their activities diverted from subjects in which they were not proficient, or else being stimulated to overwork, become the ready victims of a system which has not the sanction of any sound cducational principle, but of long time custom only in its support. To offer prizes for regularity, or punctuality, or good conduct, or diligence, or any combination of these, is to elevate one or more virtues in the mind of the child by indirectly depressing every other. Every member of a well ordered School must become acquainted with a variety of subjects of study, and have varied duties to perform. Every subject and duty is equally important to the pupil as a member of the School, and the regularity, promptness, good spirit, and devotion with which every school obligation is discharged are scarcely if at all of less
moment than the obligations themselves. If it is unsound to emphasize the importance of one preseribed intellentual task to the indirect disparagement of another, it is no less unsound to emphasize intellectual attainments to the virtual exclusion of other elements of a successful school life. The converse is equally true. But it is legitimate, beneficial and wise to acknowledge and reward those who distinguish themselves in the discharge of all their obligations as members of the School. The conditions, therefore, on which School prizes should be awarded must include regularity and punctuality of attendance, conduct, quality of school work, and application to all school duties; and these elements of school life are nut to be divorced from each other, but regarded as parts of one whole-churcuctei. Prizes thus conditioned would affiord a pleasant and many-sided stimulus to every pupil, and would prove au important auxiliary to the efforts of parents, Teachers and Trustees in behalf of regularity of school attendance, and at the same tirue facilitate the best discharge of every other school duty.

In view of the great importance of securing as regular an attendance as possible at all the Schools of the Province, I would earnestly recommend that the Boards of School Trustees be empowered by law to offer, every Term, at least a first and second School Prize in each School or department under their management, the prizes to be awarded on the basis which I have specified above. The cost of each prize would be small, and would be tully met by the incronsed amount received by the Trustees from the County Fund on account of the larger average attendance of pupils that would thus be secured by the District. No prizes should be offered in any School except through the Board of Trusteces, who should be held responsible for the character and general suitableness of the same. These prizes should be awarded by the Trustees on the written report of the Teacher of the School or department.

Merit Book:-I may hexe express my regret that I have not yet been able to complete the "School Merit Book" for the approval of the Board of Education. The pressure of other important duties of my office has alone retarded the cxecution of this aid to Teachers. It is designed to record the standing of each pupil as a member of the School, and daily to report the same to thic parents; while it would relieve the Teacher from the labor of making minute recoids for permanent preservation. Such an aid would fürnish an adequate means for the prompt exposure of truancy, und also provide a direct and constant means of co-operation between parents and Teachers. School duties would thus be rendered more pleasant to Teachers, irregular attendance would be diminished, While at the close of eacl. Term trustworthy data would exist for a report to the Board of Trustees respecting the award of School Prizes. A certificate of School standing, signed by the Teacher,
should be tendered to every pupil at the close of each Term; and avery pupil who has completed the course of instruction in the School, or series of departments, of the District, should receive from the Board of School Trustecs a properly executed certificate.

It appears to me that the steady application of the means which I have now suggested, and which can all be readily made universally available at a triffing expense, would within the next five years increase by one quarter the amount of education actually received by the pupils emrolled in all the Schools of the Province. If the recommendation which I have made respecting Trustees' Prizes be adopted by the Legislature, an adequate interest will be established, by which ancillary aids will be speedily called into the most successful exercise.

## Text-Books.

Since my last report, the Third French-English Reader has been published, and the Board of Education has also prescribed a Grammar of the French Language and an Arithmetic, to meet the wants of Schools composed wholly or partly of French children. Wormell's Modern Plane Geometry, revised under the direction of the Board, and containing an Appendix by President Jack of the University, has been prescribed as a text book in place of Chambers' Euclid, The University has accepted the first twelve Chapters of this text as an equivalent of the first five Books of Euclid previously required for matriculation. This new text brings into our Schools the results of the progress made in recent years in the determination of improved methods of teaching Geometry, and will enable a very inuch larger number of scholas to obtain a practical familiarity with the principles of this important sulject. The lack of interest shown by purils in this subject, testifies to a prevailing defect in the method of presenting it to them.*

A text of Natu:al Philosophy has received much consideration by the Board, and it is probable that a simple text of the Elemento of Physics for use in all the schools, with a more advanced text for ase in Siperior. High on Grammar School departments, may wherty he prescriberd. An Agricultural Class-Book for the use of

[^0]Schools in the farming Districts of the Province, and a text of General History for Superior, High or Grammar Schools, have also been matters of careful consideration. The publication of the French-English Primer, and the Introduction to Geography, have been delayed from causes butimperfectly under the control of the Board It is to be hoped that the latter text will be on sale by the end of February.

It may be thought that the Board of Education ought before this to have completed its list of text-books, and it seems to me that it is now desirable to do so at an early day. The Schools, however, have not in general been prepared hitherto for the study of the subjects for which no texts have been provided. The care which has been exercise? ky the Board in this discharge of duty has involved much cerrespondence, and an amount of labor and time which on a superficial view might be deemed unnecessary. I think that competent judges, however, will cordially acknowledge that no Board on ithis Continent, charged with the duty of prescribing text-books for use in Schools, has secured a series of texts better adapted for a progressive course of instruction in a general public School system, or one of greater educational value, than that thus far provided by the Board of Education of New Brunswick. I record this opinion after a personal inspection of the School texts displayed at the American Centennial.

In a system of non-sectarian public Schools it is necessary that both the subjects and the matter of instruction be such that all denominations of Christians in the Province can equally participate in the same. It is generally conceded, also, that the very great educational advantages arising from a uniformity of good textbooks far outweigh any possible disadvantages that may occasionally accrue to individual pupils or Teachers. In this Province, where Teachers are so frequently changed, such uniformity is of enhanced importance. As the purchase of text-books must always be a considerable and to many parents a serious item of expense, it is important that the text-books used should be as few in number as is consistent with the end to be attained; and whilst every care should be taken that they always are the best of their kind, they should be changed as seldcm as all the interests involved may require. In order to secure, among other things, the above objects for the entire Province, the Legislature created a Board of Education, and empowered it "To prescribe text-books and apparatus for the use of Schools."-[Chapter of Consolidated Statutes of Schools," sec. 5 (5).]

In order to render effective the labors of the Board of Education in this particular, the Legislature enacted that it should be the duty of eack Board of School Trustees-
"To visit at least monthly each School under their charge, and see that it is conducted according to this Chapter and the Regulations of the Board of Educa-
tion ; to notify the district of the opening or re-opening of the Schools, to provide for the health of the School, and to see that the 'ichools are properly supplied with the books peescribed hy the Board of Education. and that no books unauthorized by the Board are used:

If any parent, master, or guardian, after notice from the Trustees that a child under the care of such person is unprovided with the necessary prescribed school books, shall refuse or neglect to furnish such chlld with the books required, the Trustees shall, subject to the power to exempt indigent persons, furnish them at the expense of the District, and the cost thereof may be collected from the parents, master, or guardian, by warrant of the Trustees as in case of assessed rates.-[Sec. 74, (4) (5).]

At the last Session of the Legislature the following words were added to the affidavit which every Teacher is required to make to the half-yearly Return of the Trustees transmitted to this Department: "No text-books unauthorized by the Board of Education have been used in the School (or department)." The amendments of last Session not having been published for general circulation till in September, I instructed the Inspectors, as well as the Secretaries of the Boards of School Trustees in the Cities and incorporated Towns, to request any Teacher who should be unable to make the prescribed affidavit, to state upon the "Report" or "Return" the reason of such inability. Out of the $1,2^{\prime \prime} 4$ Schools returned, 12 Teachers were unable to make the required affidavit, and for the following reasons:-3 had used "Greenleaf"s (American) Arithmetic;" 4, "Collier's British History;" 1, "Moody and Sankey's Hymn Book;" 1, "Cornell's (American) Geography;" 1, "several works on Book-keeping and Mathematics;" 1 , "a large number of unauthorized books;" 1, "Brown's Chemistry and extra Latin and Greek Classics." In the circumstances, the department deemed it right to recognize these Returns.

As the prescribed texts are now in almost exclusive use, and are on sale in unlimited quantities, I do not see that any hardships can arise from a careful enforcement of the existing provisions of the law respecting the use of these texts in the Scoools. If, however, a contrary course were pursued, it is easy to foresee that manifold cases of hardship and injustice would ensue, while the object of the Legislature in the enactment of the important provisions which I have cited would fail of its purpose.

I may here remark what, it seems to me, should be obvious to any one on a little reflection, that the study of all subjects and all books being open to every Teacher, he is not only at liberty but is expected to amplify and often enrich, from his own study, the matter contained in any prescribed text,-provided always that he conscientiously abstains from violating the intent of any provision of the School system in this behalf. Thus, both the Teacher and the pupils receive a more general knowledge of any particular subject than is contained in any given text-book. The text-book must always he of secondary consideration in the School-room, for
if the 'Teacher's instruction is to reach its true end, he must be so fully impressed with the primary importance of the subject, as to ensure that degree of mastery of it which will enable him to feel $a$ freedom as well as exercise a discrimination akin to that which accompanies original treatment. Within the specific limitations of the law, it is subjects which Teachers are required to teach, not text-books; but it is a mistake to suppose that any necessary antagonism exists between the two. Given a uniform series of good texts, and a most important and, in general, necessary means has been supplied both to teachers and pupils, for the giving and receiving of a definite amount of knowledge of the usual subjects of School instruction. It will be observed that the Inspectors speak in the highest terms of the excellent service rendered by the prescribed texts.

## S.chool Apparatus.

The following Table exhibits the amount and character of the School Apparatus owned by the Boards of Trustees throughout the Province, on December 31st last. In respect to the amount of blackboard surface, I have no doubt that the figures given in the Tables are too low, "square feet" being an expression which seems to have been imperfectly understood in numerous instances. It will be seen that while a good deal has been done towards providing apparatus, very much remains to be done before thé Schools are properly equipped. This matter should now receive the special attention of School Trustees. The large expenditures for School accommodation will soon be fully liquidated in the great majority of the School Districts, and there will remain no real hindrance to the rapid providing of such appliances as the Schools require. A small sum annually expended for this purpose would burden no District, while the results would be at once apparent in the increasedinterest manifested by puipils and Teachers in the work of instruction.

| COUNTIES. |  |  | $\begin{aligned} & \text { 曾 } \\ & \stackrel{0}{\circ} \\ & \stackrel{\circ}{c} \\ & \stackrel{y}{4} \end{aligned}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ald | 4,360 25 | 4 | 14 | 1 |  |  | 19 |  | . | 10 |  |  |  |  |  | 603 | \$433 | 8887 |
| Ca | 3,998 38 | 9 | 12 | 2 | 162 |  | 60 |  |  | 13. |  |  |  |  |  |  | 112 | 748 |
| Char | 6,752 505 | 24 | 62 | 14 |  | 2014 | 22 | 25 | 6 | 29 |  | 2 | 2 | 1 | 1 |  | 85 88 88 | 1793 |
| Glouces |  | 3 |  | 9 |  |  | 59 | 14 | . | 14 | 3. |  |  | . |  |  | 38 | 364 |
| Keit, | 1,339 4 |  | 3 | 1 | 104 | 1043 | 16 |  |  | 10 |  |  |  |  |  | 10 |  | 410 |
| Kings, | 7,032 60 | 8 | 27 | 17 | 314 | 1418 | 49 | 1 | 12 | 43 | 4 | 1 |  | 2 | 2 | 658 | 260 | 1719 |
| M ${ }_{\text {adauwaika, }}$ | 1,012 ${ }^{1}$ |  | 14 |  |  |  | ${ }^{29}$ |  |  | 21 |  |  |  | 1 |  |  |  | ${ }^{223}$ |
| Nörthaumberland | 2,352 24 | 3 | 13 | 7 | 195 | 195 | $7{ }^{7} 29$ |  | ${ }^{6}$ | , |  |  |  |  |  |  |  | ${ }^{564}$ |
| Queient, | 2,573 17 | , | 6 | 7 | 177 | 775 | 19 | 3 | 1 | 12 |  |  |  |  |  | 165 | 75 | 660 |
| Reitigoich |  | 92 | 1 | 5 |  | 92 | $2{ }^{16}$ |  |  | 9 | 1 |  |  | 1 |  |  | 28 | 334 |
| Sdiditi ${ }^{\text {Johin }}$ | 14,330 163 | 92 | 75 | 42 | 399 | 99 32 | 55 |  | 255 | 96. | 1 | 1 |  | 1 | 12 |  | 245 | 5433 |
| Sudibury, | 93210 | 1 | 2 | 2 | ${ }^{65}$ | 654 | 4 |  | .. | 9 |  |  |  | . |  |  | 25 | 304 |
| Victotria, | $623{ }^{5}$ |  | 1 |  |  | 10 | 4 |  |  | 4 |  |  |  |  |  |  | 25 | 104 |
| Westinotlan | 6;742 44 | 2 | 12 | 18 | 229 | 2931 | 24 | 3 | 1 | 45 | 2 |  |  |  | 1 | 50 | 37 | 1110 |
| Xork, | 6,487 56 | 22 | 20 | 18 | 308 | 989 | 33 | 15 | 1 | 32. | 2 | 1 |  | 4 |  | 616 | 315 | 1440 |
|  | 59,5976 | 172 | 267 | 145 |  |  | / 388 | 918 | 2 |  | 15 | 7 |  | 10 |  |  |  | 816,093 |

## The Grading of Schools.

I am not aware that there was a graded School in the Province tive years ago. The provisions of the Parish Schools Act did not take advantage of aggregations of population in the organization of Schools and the classification of pupils. The Schools in the centres of population are generally less efficient than in the small villeges and well-to-do rural districts. Immediately on the introduction of the Free Schools Act, the problem of providing accommodation for the pupils in the populous Districts of the Provincè, and of establishing a consecutive series of Schools, was a very serious one, and demanded much expenditure of labor and means for its solution. From preceding statements of this Report, it will be seen what amount has been expended by the Cities and incorporated Towns in procuring permanent School accommodation. Nearly all of the Districts maintaining graded Schools have excellent School-roums, furniture, and general equipment.

On October 31st last, there were 325 graded School departments, being 25.51 per cent. of all the Schools of the Province. These Schools accommodated 17,146 pupils, or nearly 33 per cent. of the children enrolled at School for the Term. The average daily attendance of these Schools was 10,268 , being 59.88 per cent. of the pupils enrolled therein during the half year; while the percentage of attendance in the miscelloneous Schools was but 47.93 per cent. The following are the number of graded departments in each County, with the half-yearly percentage of daily attendance at the same, and at the miscellaneous Schools, for the Term closed October 31st, 1876:-


It will be seen that the graded departments in each of the Counties except Sunbury (2), Victoria (5), and Westmorland (29), surpassed the miscellaneous Schools in the regularity of daily attendance of pupils. The application of those incentives to greater
regularity, which I have already indicated, is especially needed in the graded departments of the exceptional. Counties referred to. On the whole, the record of the first five years' work connecied with the grading of our Schools, is one of which the Province may justly be proud.

## School Accommodation.

I am able to present a tolerably complete exhibit of the School. accommodation owned by the sevetal Districts of the Province. The Returns of the Board of Trustees, from which the facts about to be presented have been cornpiled, have, at my request, been carefully reviewed by the several Inspectors. In a few comparatively unimportant Districts of some Counties, I have adopted the Inspectors' estimates, no answers to my enquiries having yet been received from the Trustees. The facts given are exclusive of any rented School-rooms or other property.

Schoot-Houses.-On December 31st, 1876, there: were 1:172 School-houses ourned by the several School Districts of the Pro:vince. Of these, 553 (including 27 log houses) were erected previous to the introduction of the new law, and 619 subsequently: : These latter contain 719 School-rooms, 3 examination halls, arid about 100 class or library and apparatus rooms; four houses are of brick and stone and the remainder are framed houses. In addition to the erection of these new houses, 363 of those built prior to January 1st, 1872, have been enlarged or repaired. Thus'it will be seen that nearly 53 per cent. of all the School-rooms owned, were built during the past five years; while nearly 66 per cent. of the remainder have been enlarged or repaired during the same period. Or, to state the facts differently, the increase of Schoolhouses since January 1st, 1872 , is 111.93 per cent., and the increase of School-rooms 158.71 per cent.

School-Furniture.-Of 1,099 of the 1,171 School-houses owned by the Trustees, 86 are reported as being furnished with single desks and chairs; 553 , with double desks and chairs; and 460 with long desks and benches. These figures do not include the rented rooms in Saint John, Fredericton, and other Districts. The two Districts named have provided all their School-rooms with single desks and chairs.

Play-grounds.-There are 937 playgrounds owned by the School Districts, 291 of which are enclosed and 646 uninclosed. The following; are the areas of these grounds: an acre or upwards, 90; one-half acre and less than an acre, 411; one-quarter acre and less than half an acre, 349 ; one-eighth acre and less than a quarter acre, 56 ; less than one-eighth acre, 31.

Expenditure for School-Houses, Furniture and Grounds, owned by the Trustees, and returned valuation of the same on Decemper 31sw, 1875, with indebtedness of Districts for' the same.*-The amount expended by the various School Districts from January 1st, 1872, to December 31st 1876, in providing School-houses, furniture and grounds, is returned at $\$ 652,012$, while the valuation of all the houses, furniture and grounds owned by the Trustees is returned at $\$ 777,735$. Nearly $\$ 25,000$ of this amount was provided by the Legislature to aid poor Districts in building. The indebtedness of the several School Districts for the above objects was, on December 31st, 1876, $\$ 286,043$. The Schoolhouses and firniture are insured in the sum of $\$ 222,550$. Of the value of all these School-houses, furniture and grounds owned by the Trustees on 31st of December last, 83.83 per cent. has beencreated since January 1st, 1872. and of the whole amount expended for these purposes $36: 80$ per cent. remains as indebtedness upon the Districts:

If: the amount of 450,000 provided by the Legislature at its last Session for the erection of a Provincial Normal School:Building, be added to the above valuation, the total sum will-be \$827,735 as the value of houses, furniture and grounds; of which $\$ 7.02$,012 has been created within the past five years,- $\$ 70 ; 000^{\circ}$ by the Rrovince, and $\$ 627 ; 012$ by the School Districts.

The following Table presents the foregoing facts relating to permanent School Accommodation not only for the Province, but for each of the Counties as well.

[^1]

Of the statisties included in the foregoing 'Table, the following respecting the Cities and Incorporated Towns may be read with interest:-

|  | Houses erected or purchased sinc Jan. lst, 1872. | Brick. | Framed. | School Rooms. |
| :---: | :---: | :---: | :---: | :---: |
| City of Saint John, | , | 1 | 2 | 28 |
| Fredericton, | 4 | 0 | 4 | 13 |
| Town of Portland, | 3 | 1 | 2 | 23 |
| Saint Stephen, | 3 | 1 | . 2 | 10 |
| Milltown. . | 5 | 0 | 1 | . 6 |
| Woodstock, | 1 | 0 | 1 | 11 |
| Moncton, . . | . 4 | 0 | 4 | . 8 |
| Total, | ... 23 | 3 | 16 | 99 |

There are two spacious School Halls in the houses erected in Saint John, and one in the new house in Portland. There are aiso a number of class and apparatus rooms in the School-houses above reported. All these houses are supplied with either single or double desks and chairs. The Districts of Saint John, Portland and Fredericton have also 73 rented Schoul-rooms.

| Amount expended since Jan. 1, 1872, for Houses, Furniture, Grounds, and Premises, |  | Indebtedness of Trustees. on account of foregoing expenditure, |
| :---: | :---: | :---: |
|  |  | ... $\$ 140,094$ |
| Fredericton, | 17,002 | 15,400 |
| Town of Portland, | 42,400 | *7,700 |
| Saint Stephen, | 40,000 | 40,000 |
| Militown, | 9,512 | 2,000 |
| Woodstock, | 13,000 | 5,475 |
| Moncton, | 15,000 | 13,000 |
|  | \$277,008 | \$223,669 |

The above Districts have, therefore, incurred 42.48 per cent. of the whole expenditure in the Province for School accommodation during the past five years. The Trustees of these Districts own 36.28 of the estimated value of the School accommodation, and are indebted for 78.19 per cent. of their expenditure on this account. All the other School Districts of the Province are indebted for but 21.81 per cent. of their expenditures for houses, lands and furniture procured within the past five years.

## Some of the Results of the Free Schools Act.

The outcome of the educational activity of the past five years is the establishment of the great outlines of an enduring and efficient School System. With much pains and labor the Province has been divided into School Districts. Twelve hundred and

[^2]seventy-four Schools have been set in operation. The number of School-houses owned by Trustee Corporations has increased 111.93 per cent., the School-rooms belonging to them, 158.71 per cent., and 66 per cent, of the Houses previously owned have been enlarged or extensively repaired. School Furniture of the most approved patterns has been introduced into one-half of the Schools now existing in the Province. Sichool Play-grounds have very generally been procured, and a considerable proportion of them have already been suitably enclosed, while School Premises have been improved in a marked degree. The value of School-houses, grounds and furniture owned by the Trustees has been increased from $\$ 125,723$ to $\$ 777,735$, or 518.61 per cent.; nearly two-thirds of the expenditure for which had been discharged on December 31st, 1876, and of the balance but 35.86 per cent. rests upon the School Districts outside the seven Districts which embrace the Cities and incorporated Towns. Insurance to the amount of $\$ 222,550$ has been secured on School-houses and Furniture. A uniform and superior series of Text-Books has been provided, eleven of which have been prepared at the instance and under the supervision of the Board of Education, while the selection or adaptation of others has received especial care; and the series is now in universal use in the Schools. A good beginning has been made by way of introducing necessary School Apparatus. The enrolled attendance of pupils has been increased 53.09 per cent., and the percentage of average daily attendance has not only been preserved but carried upward over the five years to a degree equal to 3.14 for each Winter Term, and 1.21 for each Summer Term. The organization of Schools in the most populous Districts has been successfully grappled with, and as a result 25.51 per cent. of all the Schools of the Province have been classified into graded departments during the five years; embracing nearly 33 per cent. of all the pupils returned to this Office. Fixed Courses of Instruction have received much local attention, and marked interest has been awakened in Methods of teaching and School management. The Normal School has been strengthened and conducted with all the energy practicable within its straitened accommodation; and a new and commodious building of brick and stone has been provided, at a cost of $\$ 50,000$; in order to secure a permanent supply of trained Teachers. An impartial and uniform system of Licensing candidates for the office of Teacher has been established, and holders of Licenses issued under its operation are accredited Teachers in every District in the Province, during good behaviour. The remuneration of Teachers has been made certain, and has been raised to an amount tolerably commensurate with the duties by their office; and an educational periodical has been instituted for the Department for the regular communication of official and other scholastic information to all Officers and Teachers connected with
the administiation of the School System.
These splendid results have not been achieved without local struggles and conflicts, many of which were those inseparable from all progressive movements involving the varied interests of all the people. The County Inspectors, the Boards of School Trustees and their officers, the Teachers generally, and especially the Principal of the Normal School and his coadjutors, as well as many thousands of noble-hearted men in the discharge of the duties of an intelligent citizenship, have laboriously striven by a loyal and zealous execution of the powers and duties devolved upon them by the operation of the Free Schools Act, to rander the system of Schools which it created a blessing to all the people of New Brunswick. The author of the Free Schools Act, and the Legislature which passed it and has sustained it in unimpaired operation, as well as the Board of Education, upon whom has been largely devolved the determination of questions of administration, have before them as midrked and beneficent educational results.as were ever developed in any country within an equal period of time. It only remains that a similar devotion and singleness of purpose shall characterize the future administration of the System, iand that provisions be made at once for its complete development in those particulars which are either contemplated by existing enactments or are compliments essential to the continued vigor and virtue of their operation, to place the School System of New Brunswick permanently abreast of the increasing requirements of our people as "honest sons of honest industry," citizens of a free State, and members of that Commonwealth of general intelligence and culture whose sovereignty embraces the world.

The activity which has in five $\bar{j}$ ears wrought such surprising results in the department of the externals of education must be conserved by being promptly and skilfully directed, in greater measure than has hitherto been practicable, to the more difficult and complex task of elevating the character and quality of the work done in the Schools. A high standard of educational efficiency must be intelligently striven for, in order that the energizing and moulding power of a sound education may be brought home to every pupil and household in the Province. This is the true aim; and the work already performed hes well prepared the way for its fuller accomplishment. But this stage in our progress is one requiring in an especial degree the general direction of the Board of Education, and the people have a right to look to the Legislature for such provisions as may be necessary to enable the Board to guarantee sound, efficient and suitable work in the Schools. Whatever is necessary to this end will undoubtedly receive the hearty support of those who have so cheeriully erected and furnished houses and put Schools into operation. Considerable portions of the Province are now as fully prepared as they
ever will be for the first steps of this advance, and I would most respectfully and urgently invite the attention of the Legislature to the suggestions offered-in my last Report (pp. xxxiii-xli.) in reference to provisions for School Inspection, a Reserve Aid Eund for Teachers; and the encouragenent and security iof SECondary: Educarion. I would also here. refer to what I have suggested in a previous : part of , this Report; respecting School Prizes (p. xly). These subjects are worthy of theimost; cereful attention at the present time; and their consideration should not, in my judgment, be longer deferired:: The data necessary for an intelligeut conclusion respecting each are now ayailable; and the administration of the 13 th Section of the Chapter of the Consolid ated Statutes relating: to Schbols cannot he properly effected by this Department, until the Législature shall authorize: suitable ait raigements for Iuspection proper, The spirit of our Schools will sufter declension, of fail to reach the high level to which it may now be successfully stimulated, if this most important branch of the selvice is not put in the way of attaining its normal completion. '

## CORPORAL PUNISHMENT.

The inflction of physical pain as a means of discipline in the education of children has the sanction of high authority and timehonored example, but in recent times has fallen considerably into disrepute and disuse. Its necessity and propriety have been much discussed ; and there are, probably, but few subjects in connection with practical education upon which more diverse opinions are entertained; some contending that a resort to corporal punishment, in families and schools, is legitimate and necessary, others, that it is a:" relic of barbarism,' and should never be employed, but that children can be, amd always should be, governed by the use of "moral suasion,"-an appeal to their reason, their sensibilities; and their sense of right. Anciently, the propriety of this mode of edueational coercion seems to have been scarcely questioned. Solomon is emphatic in his approval of it, in proof of which the following citations from the Book of Proverbs are often used:
"He that spareth his rod hateth his son ; but he that loveth him, chasteneth him betimes."-xiii, 24.
"Fooliskness is bound in the heart of a child; but the rod of correction shall drive it far from him."-xxii, 15.
"Withhold not correction from the child; for if thou beatest him with the rod he shall not die. Thou shalt beat him with a rod, and shalt deliver his soul from hell."-xxiii, 13, 14.
"Correct thy son and he shall give thee rest, yea, he shall give delight unto thy soul."-xxix, 17.
" Whom the Lord loveth He correcteth ; even as a father the son in whom he delighteth."-iii, 12.
"Chasten thy son fwhile there is hope, and let not thy soul spare for his crying."-xix, 18.
"The rod and reproof give wisdom; but a child left to himself bringeth his mother to shame."-xxix, 15.

Whether the practice enjoined in these Scriptural texts is to be considered as sanctioned thereby or not, its existence, if not its usefulness and necessity, has been recognized at all times and in all countries. Horace refers to it when he says: "Memini [carmina] qua plagosum mihi Orbilium dictare (I remember the verses which Orbilius, my flogging (or feruling) schoolmaster, used to dictate to me, when a boy). Juvenal speaks of this school discipline as a matter of course: Et nos ergo manum feruloe subduximus

> ("And we ourselves", once snatched the hand away
> From prone descending rod, as well as they.")

St. Paul speaks in a similar manner of the use of the rod as a means of family discipline: " Whom the Lord loveth he chasten-
eth, and: scourgeth every son whom he receiveth"; and again; "God dealethe with you as with soms; for what son is he whom the father chasteneth not?" (Hebrews, xii, 6, 7). Sti. Augustine says', in his c"onfessions: "Discipline is needful to pvercome our puerile sloth, and this also is a part, of Thy government over Thy creaturea, 0 God, for the purpose of restraining our sinful impetuosity. Trom the ferules of masters to the trials of martyrs, Thy wholesome severities may be traced." Melanchthon confessed that his teacher made him learn by using the rod. (Nihit patiébatur, me omittere; quoties en robam dabat plagas mini.) and he remapks. "Thus he made me a grammarian. He was the best of men; he loyed me like a son, and I loved him like a father, and I hope we shall both meet in heaven." Dr. Johnson uniformly testified in favor of corporal punishment in schools. To Langton he said on one occasion, "My master whipped me very well; without that, sir, I should have done nothhing." Goldomith said, "It is very probable that parents aretoldof some masters whonever use the rod, and are, consequently, thought the properest instructors for their children; but, though tenderness is a requisite quality in an instructor, yet there is often the truest tenderness in wiell-timed correction." Colridge says, "I had one just flogging"; the cause being that he told his preceptor that he "hated the thought of being a clergyman," because he was an infidel. "For this," says he, "Bowyer flogged me,-wisely; as I think,-soundly;"as, In lynowo Any whining and sermonizing would have gratified my wanityi. and confirmed me in my vanity." (Table:Tall:) Locke wheqras very much averse to the use of the rod, both in families and schools, says, "There is one, and but one, fault for which I think children should. be beaten; and that is obstinancy and rebellion. And in this, too, I would have it ordered $\mathrm{so}_{\mathrm{o}}$ if it can be, that the shame of the whipping, and not the pain, should be the greatest part of the punishment."

Nothing, however, has been so grievously and shockingly abused by parents and teacheis as, corporal punishinent, in all its various and loathsome forms.-flogging, flägellation, caning, whipping, scourging, beating with birch twigs, "taws," the fervie, (a flatipiece of wood, generally with a hole in the broad part), etc., ettentwhen the vile and unnecessary cruelties perpetrated upon children by these various instruments are considered, it is no:wonder that corporal punishment appears to many persons altogether revolting,a thing to be banished forever: Montigne says, "Do but come in when the youths are about theur esson, and you shall hear nothing but the outclies of boys under execution, and the thundering of pedagogues drunk with fury;" and again, "How; much more decent would it be to see their classes strewed with leaves and flowers, than with bloody stumps of birch !" It is a sad fact that, in whatever countries the rod has been used, it has degenerated into.
an instrument of cruelty and torture. Says Cooper, in The History of the Rod, "It is recorded of a Suabian school-master that, during his fifty-one years' superintendence of a large school, 'he had given $911,500^{\prime}$ canings, 121,000 'lloggings, 209,000 eustodes, $136 ; 000$ tips with the rulei, and 10,200 boxes on the ear. It was further calculated that he had made 700 boys stand Bare-footed on peas, 6,000 kneell on a sharp edge of wood, 5,000 wear the fool's-cap, and 1,700 hold the rod:" Ginls as well as boys, and even young. women, in schools of high depute and attended by the children of rank and fashion, it was once the custom to subject.to the miost disoraceful and indecent flagellation. In a poem entitled The Teriors of the Rod. published in 1815, the whole scene is depictéd:


On such occasions, it seems to have been insisted that the other children should be witnesses of the pain and disgrace of their-fel-low-pupil. Thus Shenstone, describing such a scene, says:-
> " - Brandishing the rod, she doth begin To loose the bfogie's, the stripling's late delight! Añid down they droip, hypearis hise dainty skin, Fair ais the farry coat of whitest ermilin:"

But the most toüching incident of the affair is the presence of the offender's sister.
" 0 ruthful scene! when from a nook obṣcure, His littlle gister doth his peril see."
Andiasithe punishment proceeds; the sympathies of the little girl are páinfully excited,

$$
\begin{aligned}
& \text { "No Ionger can shé now her'shrieks command;: }
\end{aligned}
$$

> Torushen forth, and with presumptnons hand,
> $r^{:} \quad: \quad \because \quad . \quad$. To stay hawh justicé in its mad carper,"

- The : norsilo as it was callea-that is, the momting of the Boy'to be "puriished on the back of another boy, was a practice that inust have debased and hardened all concerned. In the Spectator (No. 168), the master of Etom School at that time isidescribed as a brütal tyrant. "Many a white and a tender hand;" stify the wititer; "which the fond mother had passionately kissed
a thousand and à thousand times, have I seen whipped until.it was covered with blood ; perhaps for smiling; or for going a yard and; ar half out of a gate, or for imiting an a.for an $\cdot a_{3}$ or and $a$ - for an o." Dr. Johinson, an advocate of judicious corporal, punish ment, had been the victim of its abuse. ,."The master," he said, " was severe, and wrong-headedly severe: He, used to beat us unmercifutly; and he did not distinguish between ignorance and hegligence, for he would beat a boy equally formot knowing a thing as for neglecting to leam it. For instance, he would call a boy up, and ask him. the Latin for: candlestick, which the boy: could not expect to be asked. Now, siri if a boy could answer everiy question, there would be no need of a master to teach him:" So necessary, was the rod deemed that it was made an instrument of :-vicarious punishment in the case of princes, for. whose: off fences other lads, called whipping-boys, were made to suffer. $:$ Of this numorous instances are cited. Plutaich gives one in speaking of his tutor, Ammonius. . "Our master;" says he, "having one dayy observed that we had indulged ourselves.,too luxuriously iat dinner; at his afternoon;lecture, ordeied his, freedinan to give his own son the discipline of the whip in our presence; signifying, at the same time, that he suffered this punishment because he could not eat his victuals without sauce. The philosopher:all the while had his eye upon us, and we knew well for whom this example of punishnent was intended.' ", Eanghome;commenting upon this incident, iemarks; "This mode of punishmentin our publie schools is one of the worst remains of barbarism that prevails among us.".

Dr. Cotton Mather, in his elégy on "Master Ezekiel Cheever," refers thus to the severities of teachers in his time


The abuses referred to; and especially the strong teindency to cruelty and excess in the infliction of corporal punishment; have led to the most eapnest and empliatic denunciation:of it in every form, and the advocacy of its total abolition. In some places, all resort tox:this 马ind of discipline is strictly prohibited; and expuls sion substitiutedjin its place. The opinions of educators in regard to the expediency of this measureiare veryidiverse. Lyman Gobby
an extreme and enthusiastic advocate of exclusive moral suasion, expresses the sentiment of probably the entire class of thinkers to which he belonged. "I conscientiously believe that corporal punishment, as a means of moral discipline, is averse to the proper, full, and happy development of the social, moral, religious, and intellectual character of those who are flogged; and because, also, I believe it has a degrading and hardening influence on those who receive it, and on those who inflict it." Here, it will be perceived, the argument is two-fold, (1) Corporal punishment is hurtful and degrading to those who receive it; (2) It degrades and hardens the sensibilities of those who inflict it. The first proposition cannot be maintained as generally true, since there are innumerable examples to prove that $t$ 'ose who have been habitually subjected to the severest discipline of this kind in their youth, have grown up to be men of the highest character for talent, benevolence, and worth. The cases of Johnson, Coleridge, and others, already referred to, are instances of this. The second point of the argument would seem to be pretty well established by the "history of the rod," since we see persons who have been decustomed to inflict pain upon others in this way become harsh, tyisanical, and unfeeling. At any rate, if this is not the invariable result, it appears to be quite generally the effect, of an habitual adininistration of this kind of discipline. George B. Emerson says, "The great objection to corporal punishment is the fact that it excites angry passions, not only in the child, but in the master, and more in the latter than in the former. My own experience teaches me that the effect is almost necessarily bad on the individual who inflicts the pain. It excites a horrible feeling in him -a feeling which we might conceive to belong to evil spirits." It must be borne in mind, however, that school-masters. in the past, were entrusted with an almost unlimited authority and power over their pupils; and few persons are so constituted as to be able to exercise any such power for a long period without greatly abusing it. At the present time no such authority exists; and neither public opinion nor the law would permit teachers to commit with impunity the barbarities charged upon them in former times. Very many, perhaps nearly all of the arguments against corporal punishments may be shown to be objections to its abuse rather than to its legitimate use. Thus, it is stated that the punishment is often inflicted in anger, that it is frequently excessive, sometimes administered without propericare and discrimination, or in an improper manner, or with musuitable instruments. All this is true ; and, perhaps, it may be trathfully alleged, that where corporal punishment is permitted at all, these abuses are, to some extent, unàvoidable. The only questions, however, to be discussed are, Is corporal punishment ever neeessary as a means of discipline; and, if necessary; in what
cases; and under what restrictions, should it be permitted? The first question being decided in the negative, the second would, of course, be disposed of, since nothing but necessity can justify the infliction of physical pain upon others. Nor does the showing that corporal punishment is useful as a prompt and expeditions mode of punishing the offences of children prove its necessity; all will admit that, its concomitants and tendencies are, in many respects, so much to be avoided that any other effectual mode of discipline is to be preferred. In judging of its necessity; we are to consider (1) the nature of the child to be governed, (2) the circumstances under which school or family discipline is to be carried on, and (3) the agents by whom the child is to be instructed and controlled. All sentimentalism is, of course, to be eliminated, and the facts of experience alone are to be appealed to. ....We must'take human nature as it is, and not as we would wish it to be. We must consider the selfishness, wilfulness, idleness, and spirit of mischief that must be controlled or exorcised before instruction can accomplish its purpose ; and, before concluding that corporal punishment is never necessary, we must be prepared to say that under all circumstances and with all available instrumentalities; this control can be effected without any appeal to physical coereion: Are there not children so self-willed, so bent upon mischief, so determinedly wayward, and at the same time so devoid of sensibility. or moral sense, that there is no way of conirolling them except through the fear of bodily pain? Most educators say, from thein own experience, that there are. The average nature of children is of this character, though varying in degree. They are-ruled by: their propensities, while the elements of moral restraintare unideveloped, and hence inoperative. Says Dr. Dwight, "The parents' will is the only law to the child.; yet, being steadily regulated by parental affection, is probably more moderate, equitable, and pleasing to him than any other human government, to any other subject. It resembles the Divine government more than any other. Correction, which is sometimes considered the whole of government, is usually the least part of it, a part indispensable indeed; and sometimes efficacious, when all others have failed." John Locke, an enemy to corporal punishment, admits that sometimes children are so obstinate that they can be subdu d by no other means. Mrs. Willard said in 1847, " I believe that corporal punishment should always be resorted to as soon as other modes: of discipline fail, and I have 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." Dr. P. Page, an educator of long experience, greai. moral force, and singular kindliness of nature, fully admitted the. necessity of corporal punishment as a last resort. "I do not hesitate," he says, "to teach that corporal infliction is one of the justi-
fiable means of establishing authority in the schoul-room. To this conclusion I have come after a careful consideration of the subject, modified by the varied experience of twenty years, and by a somewhat attentive observation of the workings of all the plans which have been devised to avoid its use or to supply its place." Horace Mann, one of the most enthusiastic advocates of moral suasion, recognized the necessity of corporal punishment in some cases. "Punishment," he says, "shoutd never be inflicted except in cases of the extremest necessity; while the experiment of sympathy, confidence, persuasion, encouragement, should be repeated forever and ever." An English teacher says, "It is necessary for a child to learn that the violation of law, whether of school, society, or God, brings inevitable suffering. The sense of right is so imper, feetly developed in children that one of the ways of impressing upon a child that right is right, and wrong is wrong, is by show: ing that suffering follows from one, enjoyment and a sense of satisfaction from the other:" Corporal punishment is sanctioned by Rosekranz in Pedagogics as a System. "This kind of punishment," he says, "provided always that it is not too often administered, or with undue severity, is the proper way of dealing with wilful defiance, with obstinate carelessness, or with a really perverted will, so long or so often as the higher perception is closed against appeal." Under peculiarly favorable circumstances,--a condition of things which may be considered ideal, that is, where the home training of the pupils of a school has been judicious and correct; where all have been taught, from their earliest years, to obey their elders and superiors; and this not by volence and severity, but with gentleness and firmness; and moreover, where the teacher or teachers of the school are gifted with the same talents for discipline,-under such circumstances, most educators would agree that a resort to corporal punishment would scarcely ever, if at all, be necessary. But such are not the circumstances under which children are instructed in school. This point is ably presented by Horace Mann. "The children who attend school," says he, "enter it from the vast variety of homes which exist in the State. From different households, where the widest diversity of parental and domestic influences prevails, the children enter the school-room, where there must be comparative uniformity. At home some of these children have been indulged in every wish, flattered änd smiled upon for the energies of their low propensities, and even their freaks and whims enacted into household laws. Some have been so vigorously debarred fromevery innocent amusement and indulgence tnat they have opened for themselves a way to gratification through artifice, and treachery, and falsehond. Others * * have been taught that honor consists in whipping a boy larger than themselves; others, that the chief end of man is to own a box that cannot be opened, and to get
money enough to fill it; and others, again, have bjeen taught upon their fathers' knees, to shape their young lips to the utterance of oaths and blasphemy. All these," as he says, "must be made to obey the same general regulations, to pursue the same studies, and to aim at the same results." He further says, "He who denies the hecessity of resorting to punishment in our schools, virtually affirms two things: (1) That this great number of child dren, tajken at all ages and in all conditions, can be deterred from the wrong and attracted to the right without 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 propositions am I at present prepared to admit." He also prudently remarks that "it is useless, or worse than useless, to say that such or such a thing ean be done and done immediately, without pointing out the agents by whom it can be done."

These considerations assume that every available agency has been employed before corporal punishment is resorted to; for all educators are agreed upon the point that this kind of discipline is only, if ever, justifiable as a last resort ; that is, after every possible substitute for corporal punishment has been used. There is then one, and only one alternative, as far as school discipline is concerned, and that is expulsion. To this it is objected that to expel a pupil, and particularly from a public school, is to acknowledge the innadequacy of the means to restrain him. "The vicious and ignorant scholar," says D. D. Page, "is the very one who most needs the reforming influence of a good education. Sent away from the fountains of knowledge and virtue at this, the very time of need: And what may we expect for him but utter ruin?" In the city of New York, corporal punishment has been prohibited in the publie schools since 1870, expulsion being substituted for it. In the superintendent's report for 1873, the following statement is made: "There is a large class of boys whom our schools do not and can not restrain, and whom, therefore, they cannot benefit, but L.ust send adrift, to find their way inevitably to the reformatories and prisons, after having committed those injuries to the community which our school system was designed to prevent." It is further stated. "There are pupils, the sons of widowed mothers, who canoot be restrained at all at home ; and when these axe turned from the school they are lost indeed. To these children the city owes an education, and iu order to be able to bestow it, it is bound by every obligation of right, and duty to govern them ; and if its chosen officers expel them, they evade a most solemn responsibility." On the other hand, in Chicago, in which corporal punishment, though not prohibited by positive enactment, has been abandoned for several years, the superintendent states, "Suspensions for misconduct, the great bug-bear in the sight of
apologists for the use of the rod, have been far less frequent than in the years when corporal punishment was in vogue. The most fávorable year under the old regime gave us one suspension for each 22;000 pupils in daily attendance. The past year (1874-5) show's but oñe suspension for each 48,888 pupils in daily abtendance." He also stảtes that "a greater good hos been secured at less cost than by the old methods. The chief element of cost has beem time spent in discipline;" and added to this is loss of school time by enforced absence. The superintendent of St. Louis (1869-70) says, "Corporal punishment is still inflicted in the schools of our city, but I am glad to say in fewer cases every succeeding year. ${ }^{*}$ * Experienced teachers affirm that they think it impossible to do without it:". In 1873-4, he says: "We have had but yeiry few cases of corporal punishment, when compared with former years, but still the number is quite large when brought together * * Our general average is now about 1,000 cases per' quaritter'for 25,000 pupils. Sixteen years ago, there was one hundred times this amount pro ratu. The superintendent of Baltimore (1875) says: "The rules of the Board allow the infliction of corporal punishment by the principals in cases of necessity; but it must be said, to their credit, that they have used the power but seldóm." * * It is to be hoped that the day is not distant when corporal punishment will be with us a thing of the past."

This kind of punishment survives in most American and English schools; but the frequency and severity with which it was formerly inflicted would not be tolerated at the present time. The opinions of practical teachers are generally in its favor; but the tendency of public opinion is towards its abolition, notwithstanding all that may bé said iñ its support as being, under proper regulations, a wholesome and decessary meañ of discipline. In Germany, corporal punishment is pernitted in the public schocls for certain offences, as resistance to the teacher's authority, obscenity, irreverence, etc.; but its infliction is limited by strict regulations. In the school láw of Prussia, adopted in 1845, it is provided that no punishment shall be administered exceeding "the bounds of moderate parental discipline", "apd that the teacher may be prosecuted for inflicting any excessive'punishment. Another local ordinance provides that corporal punishment may be inflicted (but only after the lessons are over) with parental moderation and a due regard to the physical condition of the child."*. Blows with the hand, or on the head, are strictly piohibited. "Similar laws prevail in the cantons of Switzerlund. In France, the law of 18.50 , which is still in force, prohibited all corporal punishment in the primary schools; and the substitutes' for it are such punishments as bad maivis, confinement, the inposition of tasks, placing the names of delinquents on a roll

[^3]of dishonor, etc. In Russia, corporal punisḥuent was prohibited in the primary schools at a very, early date; but, in 18920, was, xestored upder certain restrictions. In 1862, a statute was proposed for the govemment of the schools without corporal pynishment; and this statute was submitted to German educators for their criticism and suggestions. Of the twenty-one who presented opinions, eleven opposed the abolition of corporal punishement, and tiwo fayored it, while eight expressed, no opinion of that part of the statute. The statute was finally so modified as to leave the decision of the question to the local boards.

The school codes of the United States are generally silent, in regard to the right of teachers to inflict corporal punishment; but there are numerous judicial decisious in favor of this right. By English and American law, a parent may correct his child in a reasonable manner, and the teacher is in loco parentis (see 2 Kent, 2055; 1 Blackstone, 453; 9 Wendell's Reports, 355; 27 Maine, 280; 32 Vermont, 123; 2 Devereaux and Battle, 365; 4 Gray, 37). In the last decision mentioned, the Supreme Court of Massachusetts held that a ferule is a proper instrument of school punishment. There are numerous decisions which support this authority, even while the pupils are going to or returning from school. In a case reported in 32 Vermont, 114, the judges of the Supreme Court unanimously held that "the supervision and control of the master over the scholar extends from the time he leaves home to go to school till he returns home from school." $\dagger$ The decisions of many of the state superintendents have also sanctioned this doctrine, Pupils of all ages are equally amenable to such punishment. (See 27 Maine, 226.)

As to the offences for which corporal punishment should be inflicted as a last resort, and the proper mode of inflicting it, the following suggestions (of a practical teacher) would probably meet with universal approval from those who claim that this mode of discipline is, in certain cases, necessary: (1) It should be reserved for the baser faults. A child should never be struck for inadvertencies, for faults of forgetfulness, for irritability and carelessness or for petty irregularities. It is a coarse remedy, and should be employed upon the coarse sins of our animal nature. (2) When employed at all, it should be administered so as to be felt. The whole system of slaps, pinches, snappings, ear-pulling, hair-pulling, (often practised by those who imagine that they never resort to corporal punishment), and irritating blows is to be condemned. These petty disciplines tend to stir up anger, and rather encourage evil in the child than subdue it. (3) In administering physical punishment to a child, the head should be left sacred from all violence. Pulling the hair or the ears, rapping the head with a
thimble or with the knuckles, boxing the ears, slapping the cheeks or the mouth, are all bratal expedients. These irritating and annoying practices are far more likely to ärouse malignent passions than to alleviate them. (4) The temper with which you administer punishiment will, generally; excite in a child a corresponding feeling. If you bring anger, anger will be excited; if you bring affection and sor ow, you will find the child responding in sorrowful feelingis; if you bring moral feelings, the child's conscience will be excited. Anger and severity destroy all the benefit of punishment; love and firmness will, if anything can, work penitence and a change of conduct.

## EXAMINATION FOR SCHOOL LICENSE-MARCH; 1877.

## QUESTIONS SUBMITTED TO CANDIDATEST.

I. [1] Mar. '77. Sobool Management. Time, 1 hr .30 m .

1 In what respects should the government of young children differ from that of older ones? Why?
2 Name some of the leading principlès adopted in the government of numbers (as distinguished from that of individuals) by any of the educational reformers.
3 State concisely what means you would adopt to, secure throughout your school a mppular sentiment in favor of order and virtue.
4 What are your views respecting rewards and punishments? Give your reasons.
5 Draw up a Course of Instruction for a School District having three Departments,-Elemientary, Advanced, and High. Construct a Time-Table for the last Department.

## I. [2] Mar: ${ }^{177}$. <br> Teaching. -Time, 1 hr. 30 m .

1. State and illustrate the principles which determine the methods to be employed in the systematic teaching of (1) Geography, (2) Arithmetic, (3) Grammar.
2 What is the most suitable kind of historical teaching for children under 12 years of age? Draw out,such a ascheme as. you' considen adapted for this purpose.
3 "After all, the more important thing is not what is taught, but how it is staught:", "From what point of view can this :4 statement be held to embody an important truth, and in $\cdots$ what way should it influence the Teacher's practice ?
4 Give a stiott account of one of the following educational reformers and the leading features of his system: Pestalozzi, Fellenberg, Jacotot, Froepel.
5 Write out notes, as below, of an orallesson adapted to pupils about 12 years of age.

Subject-Circulation of the Bloods

| Matter. | Method. |
| :---: | :---: |
| 1 | --1 |
| 2 | 2 |
| 3. |  |

I. [3] Mar: '77. The School System. Time, 30 m .

1 State the distinctive features of the Schools Act in respect of-
(1) Mode of Support.
(2) Apportionment of County Fund.
(3) Local School Management.

2 Specify the character of the School discipline enjoined upon Teachers by the Board of Education.
3 Under what circumstances may it be justifiable to suspend or expel a pupil from School, and how may such suspension or expulsion be legally effected?
4. What would be the Teacher's duty in each of the following cases ? State your reasons :-
(1) On entering the School-house some day he finds notices of a show or exhibition posted in the Schoolroom or placed upon the desks.
(2) A ratepayer or a trustee requests the Teacher to open the School-house for other than School purposes.
(3) The Board of Trustecs requests the Teacher to deliver the key of the School-house, at the close of the school on a certain day or days, to some person whow wishes to use the house (say) for exceptional purposes.
I. [4] Mar: '77. Canadian History. Time, 1 hr .

1 Write brief explanatory notes on "Feudal Tenure," "Quebec Act," "Clergy Reserves," "Casual and Territorial Revenues," and "Ashburton Treaty."
2 The three chief Indian "families." found in Canada by the French were the Sioux, the Algonquin, and the Huron. Give the character of each "family" and the general boundaries of the Territory which each inhabited.
3 Sketch the career of Admiral Kirkt in Canada.
4 What were the terms of the Treaties of Utrecht and Paris, so far as they related to Amarica?
5 As far as time will permit, state with explicitness the leading provisions of the Constitution of the Dominion of Canada.

Ansicers mast be written on this paper.
I. [5] Mar: $77 . \quad$ Mental Arithmetic. Time, 8 m .

1 What principle at 6 per cent. will amount to $\$ 2,800$ in 6 years and 8 months? ........................................

2 Three men entered into partnership: A. put in $\$ 2,000$, B. put in $\$ 3,000$, and $C . \$ 4 ; 000$. They gained a sum equal to $\frac{2}{9}$ of the whole stock. What was each man's share of the gain?

Ans.
$3^{4}$ The sum of two numbers is $5 \frac{3}{8}$, and their difference $1 \frac{1}{8}$ : Whiat are the numibers?.............................. . . Ans.
$4{ }^{\prime}$ Find the price of 248 yards of cloth at 3 s . and 10 d . per yard.
5) Sold a watch for $\$ 35$ and thereby lost 25 per cent., when there ought to have been gained 30 per cent. How much was it sold below its proper value ? . . . . . . . . . Ans.
6 . How much greater is a circle 22 inches in circumference than a square of the same perimeter? Ans.
Ansicere inust exhibit the wiole ojerution.
I. [6] Mar: ${ }^{17} 7$.

Arithmetrc.
Time, 1 hr .30 m.
I Define Exchange; par of exchange, arkitration of exchange. Reduce 7593 dollars 70 cents to sterling money, exchange between Britain and Canada at 4 s . 7 d . per dollar.
2. Find the amount which a banker gained by discounting a bill of $\$ 4,326$, drawn 14th May, at 6 months, and discounted 18th August, at 5 per cent per aunum. What is the difference between true and bank discount? Illustrate your answer.
3 Suppose a salary of $\$ 600$ per annum, payable quarterly, to be forborne at compound interest for 10 years, to what sum will it amount at 5 per cent. per annum?
4 Transfer 543210 senary, into the tertiary, septenary and duodenary scales, and prove the results by reducing each of them to the decimal scale.
5 How many gallons. of water are in a well 30 feet deep and 4 feet in diameter, when the well is ${ }_{5}^{3}$ full?
© 6 From the fourth proportional to ${ }_{13}^{1}, \frac{1}{14}$, and $\frac{11}{15}$, take the fourth proportional to ${ }_{14} \frac{1}{15}$, and $\frac{1}{16}$.
7 What are the principal features of the Elementary TextBook on Arithmetic? Illustrate your answer by examples. State how Simple Proportion is tieated.
$\frac{\left(4 \frac{1}{7}-1 \frac{?}{8}\right) \times .356}{18^{\prime}}$
8 Find the value of $.648^{\prime} \times .9^{\prime}$

> The Examiner voill estimate parts I and Il as of equal jualue.
I. [7] Mas: 77. : Geography. Iime, 1 hr .30 m .

## I.

1. Describe the principle watersheds of Asia, and name the rivers on each slope.

2 Describe minutely one of the following mountain ranges:Sudetic, Alps, Apennines. Give the localities and heights of the most elevated parts, with any notable facts respecting them.
3 If two persons 'set out from the same place to sail round the world, but in opposite directions, and meet half way, how much time has each gained or lost? Explain.
4 Explain by means of a diagram the cause of the seasons.
5 Between what degrees of latitude and longitude does Europe extend? Give the latitude of each of the European Capitals,
6 Explain the cause of twilight, and state how its duration may be found by the artificial globe at any place at a given day.
II.

Draw from memory an outline Map of (1) British Columbia, (2) Africa; accurately indicating on each the chief rivers and towns, and noting recent explorations in the case of Africa.
I. [8] Mar: ${ }^{\text {Th }}$. Composition. $\quad$ Time. 1 hr.

1 Arrange the following separate propositions into a conpound sentence:-
A. Other attendants crowned the golden cups with flowers wet with dew.
$\div$ B. Dancers executed the most graceful movements.
b Dancers were purposely hired (attr.)
+C. Singers poured fourth an ode of Horace or of Anacreon.
c' Singers were accompanied by the lyre (attr. phrase to subject.)
abc. The cup bearers filled their golden cups (adv. time.)
The cups were filled with the rarest and most delicate wines (attr. phrase to cups in abc.)
2 Explain and illustrate the different kinds of paraphrase treated of in the prescribed text-book.
3 As indicated below, make an elegant paraphnase of the following passage :-
"Weak is the will of man, his judgment blind,
Remembrance persecutes, and hope betrays;
Heavy is woe, and joy for humap kind
A mournful thing, so transicnt is, the blaze :
Thus might he paint our lot of mortal days,
Who wants the glorious faculty assigned
To elevate the more than reasoning mind, And color life's dark cloud with orient rays."
(3) Frame questions on the passage. (2) Write formal answers in your own words to each of your questions. (3) Using whatever connectives may be necessary, and making such alteration in the construction as a proper arrangement requires, complete the paraphrase.

4 Scan the first and last lines. What is noticeable respecting: the rhyme?
5 Point out and name the figures of speech in the passage, and quote other examples.
I. [9] Mar: '77. Grammar and Analisis. Time, $1 h$.

1 Give the general analysis of the following passage :-
"About them frisking played
All beasts of the earth, sinse wild, and of all chase In wood or wilderness, forest or den: Sporting the lion ramped, and in his paw. Dandled the kid: bears, tigers, ounces; pardq, Gambolled befoṛe them; th' unwieldly efephapats, To make them mirth used all his might, and wreathed His lithe proboscis: close the serpent sly, Insinuating, wove with Gordinn twine His braided train, and of his fatal guile Gave proof unheeded."
2 Give the detailed aualysis in the form indicated below:Form.


3 Parse in tabular form the words in italics.
Forma.

| Word. | Class. | Sub-Class. | Inflexion. | Syntai. | RuleotSyntax. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |

4 What is a complex sentence? In how many relations may a substantive clause stand in a sentence? Give an example of each relation.
5 Define the term case. What seems to be the present tendency with respect to the use of the possessive case? Give examples in support of your answer. Explain the different uses of the objective case, and give an example of each.
6 Discuss the Number of the following words:-Physics, politics, bellows, scissors, riches, alms, news.
I. [10] Mar: '77. Brintsh History. Time, $1 . h$.

1 Describe briefly the condition of the Britons under the sway of Rome.
2 State fully, but concisely, the causes which led to the granting of Magna Charta. Give its principal provisions.
3 Mention two revolts previous to the Reign of Henry VII. and specify the causes which led to them.

4 "The change from the old England to the new is so startling that we are apt to look on it as a more sudden change than it really was, and the outer aspect of the restoration does much to strengthen this impression of suddenness." Explain and illustrate this statement.
5 Give some account of any one of the following:-" "Thorough," Court of Star Chamber, Cardinal Wolsey, John Hampden, Edmund Spenser.
6 Enumerate the wars carried on by Great Britain during the present Reign.
I. [11] Mas: ${ }^{77}$.

Book-Keeping.
Time, 45 m.
I Give in full your method of closing a set of Books (Double Entry).
2 Journalize the following transactions, post and close the Ledger:-
May Ist, 1876. Commenced business with cash, $\$ 5,000$; Mdse. $\$ 3,200$; Notes against others, $\$ 800$; an aceepted Draft for $\$ 300$, drawn by Roberit Smith on Thomas Roan; debts due, $\$ 420$. Sold S. Johnson mdse, $\$ 310$, received in payment cheque on Maritime Bank for $\$ 150$, his note to balance. Sold T. Audrew $\$ 467$ of mdse. Shipped 450 bbls. flour at $\$ 5$ per bbl., received in payment a cheque on Bank for $\$ 1,000$, and for the balance an order on Quigley Walker. Midse. on hand, as per inventory, $\$ 1,200$.
3 Write out the busimess form of the above Draft drawn by Smith on Roan.
I. [12] Mur: '77. Chemistry of Common Things. Time, 45 m .

1. Explain by means of symbols or otherwise the reaction which takes place when a solution of sodium carbonate is added to one of phosphoric acid.
2. Explain the chemical processes going on when a candle burns.

3 Describe a mode of preparing chlorine. What are its chief properties and its compounds?
4 Discuss the subject of the rotation of crops, and explain the terms alluvium, argillaceous, calcareous, and leguminous.
5 Compare the chemical composition of wheat and beef.
I. [13] Már. "77.

Algebra.
Time; 1 kr .30 m.
1 Show that $(a+b+c)^{3}-(a+b+c)\left(a^{2}-a b+b^{2}-b c+c^{2}-a c\right)$

$$
-3 b c=3(a+b)(b+c)(c+a)
$$

2 Find the value of the following expression:

$$
\frac{x+y-1}{x-y+1} \text { when } x \text { equals } \frac{a+1}{a b+1} \text { and } y \text { equals } \frac{a b+a}{a b+1}
$$

3 What are simultaneous equations? Solve.

$$
\frac{x}{a}+\frac{y}{b}+\frac{z}{c}=1, \frac{x}{a}+\frac{y}{c}+\frac{z}{b}=1, \frac{x}{b}+\frac{y}{a}+\frac{z}{c}=1 .
$$

4 What do you consider the best definition of the term least common multiple? Why? Demonstrate the rule for finding the least common multiple of three compound expressions. .
5 A person buys a piece of land at $\$ 30$ an acre, and by selling it in allotments finds the value increased threefold, so that he clears $\$ 150$, and retains 25 acres for himself. How many acres were there?
6 Make notes of a lesson for a Class beginning Division.
rememule Candidates are not requized to reurk the follwwing questions, but credit will be yiven for them if worked.
7 Find the value of $x$ and $y$ if $x^{2}+x y=12$, and $x y-2 y^{\circ}=1$.


9 Find two uumbers whose product is equal to the difference of their squares, and the sum of their squares equal to the difference of their cubes.
I. [14] Mav: '77.

Geometrix.
Irime, 1 hr .30 m .
1 What are the leading features of the prescribed text of Geometry? Illustrate your answer by examples.
2 What is a locus? How many propositions is it necessary to prove to establish a locus? Illustrate your answer.
3 Determine the locus of the middle point of a straight line connecting any fixed point with a point on the circumference of a given circle.

4, Explain the terms chord, secant, symmetry of the circle. From your definition of the last term, deduce three truths respecting chords.
5 Of all straight"lines drawn to the circumference of a circle from a point which is not the centre, the shortest and the longest lie along the line which passes through the centre; and, of two others, that which is drawn to a point on the ciccumference nearest the extremity of the longest, is longer than one more remote.
6 What conditions determine a circle? Let your answer specify the different forms which the conditions may assume. Describe a circle which shall touch a given circle in a given point, and shall pass through a given point.
ASTremule Canulidates are not required to work the following, but cradit will be given for uork done
7 The side and diagonal of a square are incommensurable.
8 The bisector of the vertical angle of a triangle divides the base into parts proportional to the sides. The converse is also true.
I. [15] Mai: '77. Natural Philosophy. lime, 1 hr: 30 m.

1. Define the term force, What is the fundamental law of force on which the science of statics depends?
2 State the principle of the Parallelogram of Forces, and prove it so far as the direction of the resultant is concerned.
3 A lever without weight is $c$ feet in length, and from its ends a wieight is supported by two strings in length $a$ and $b$ fect respectively. Find the ratio of the lengths of. the arms, if there be equilibrium when the lever is horizontal.
4 State the conditions of equilibrium in the wheel and axle. Show that such conditions are necessary.
; The radius of the wheel being three times times that of the axle, and the string on the wheel being only strong enough to support a tension of 36 lbs ., flad the greatest weight which can be lifted.
6 With what initial velocity must a body be throwin downwards that it may strike the ground, which is 69 feet below the starting point, with a velocity of 104 ft : per second?
7 Define mass, deusity, specific gravity. What is the relation among mass, volumc, and density?
I. [16] Mai: 77. General History. Lime, $1 \mathrm{ll}: 30 \mathrm{~m}$.

- 7 .... Adame in the order of time the nations that played the most prominent part in Ancient History.

2. Name the Dorian states that were founded in the Peloponnesus, and describe briefly the rise and progress of one of them.
3 Distinguish the Punic wars of Rome ; name the chief leaders engaged, and the principal battles in each. Gives' dates.
4' What is meant by the Merovingian Dynasty? Give its duration, and sketch briefly the career of oue of its monarchs.
5 Give a short account of one of the following historical characters:-Cardinal Richilieu, Fredrick the Great, or Napoleon Bonaparte.
6 Write explanatory notes on the following:--:" Edict. of Nantes," "TThinty Years' War," "War of Spanish Succession," "Pragnatic Sanction."
I. [17] Mur. '77. Practical Mathematics." Time, 1 kr .

1 One of the sides of a field in the form of a parallelogram is 415 yds. 2 ft ., which is $\frac{2}{3}$ of the length of the opposite side, and the perpendicular dropped from the extremity of the shorter side to the side opposite is $868 \% \mathrm{ft}$. The field was sold at the rate of $\$ 25$ per acrere: how much was received for it?
2 A vertical axis in the form of a capstan was placed at the distance of 3 yds. 2 ft. from a wall; a lever or shaft 5 yds. in length was inserted in the capstait. How much of the wall must be removed to allow the shaft-to retolve.
3 Describe the theodolite. Specify the uses to which it is applied.
4 Braw the plan and find the area of a field fiom the:following dimensions:-


5 If the xliameter of the earth is 7912 miles, :and if Mount Atna can be seen at sea at a distance of 126 miles, what is its height?
Note-The above questions are set to the prescribed text of Geometry.
II. [1] Mar. '77. School Management. Time, 1 iff: 30 m .

1 Name some of the leading points to which attention must be paid in enforcing authority over aschool, indistinction from an individual puping.

2 In some Schools the pupils are indolent and morose, in others industrous and cheerful. To what cause do you ascribe the difference? Answer fully.
3 Give instances of offences at School, and state how you propose to treat each of them.

4 What considerations should guide the Teacher in drawing up a Time Table? Show. why the considerations you specify should be taken into account.
5 In illustration of your answer to the last question, draw up a Time Table for one week for an Elementary School. Should there be any departure from the principies stated in your answer to Question 4, give a reason for it.
II. [2] Mar. '77 Teaching. Time, $1 \mathrm{hr}: 30 \mathrm{~m}$.

1 What do you understand by the education of the senses? Point out some of the consequences arising from the neglect of such training.
2 Give the heads of a series of lessons on Colour, and illustrate your method of teaching the subject by a supposed lesson to one of your classes.
3 What is the difference between the Phonic and the Phonetic msthods of teaching the first steps of reading? Which of them would you employ, and at what stage of the child's progress? Give your reasons.
4 What distinction do you make between Number and Arithmetic? Give the heads of a series of lessons in the former, and state what principles you would keep steadily in view in teaching the latter.
5. What is the design of Object Lessons? Describe your mode of conducting such lessons, and illustrate it by writing notes of a lesson as indicated below. (Pupils 7 years of age.)

> Subject:-Ice.

| Matter. | Method. |
| :---: | :---: |
| $\mathbf{1}$ | $\mathbf{1}$. |
| 2 | $\mathbf{2}$ |
| 3 | 3 |
| \&c. | $\mathbb{C c}$. |

II. [3] Mar: '77. The School System. Tine , 30 m .
1 Detail the mode of support for Schools.
2 Show what is meant by adequate School accommodation.

3 What are the regulations relating to (1) the minimum capacity of the School-room, (2) Time Tables, (3) opening of the School-room for the reception of pupils, (4) the suspension or expulsion of a pupil?
4. What conditions must be observed to make the contract between the Teacher and the Board of Trustees a lawful one?
5 What is the regulation respecting the entry in the Register, in the event of a pupil being transferred from one department to another during the Term?
II. [4] Mar: '77.

Canadian History.
Time, 1 hr .
1 Distinguish between the discoveries of Cartier and Cabot.
2. Give the names and dates of the Treaties made between England and France during the time that England ruled over the whole of North America from Labrador to Florida, and from the Atlantic to the Mississippi. Show what territory England gained or lost by each of them?
3 Describe the first seige of Louisburg.
4 Give a brief account of the expulsion of the Acadians from Nova Scotia.
5 Explain the following terms:-Legislature, Executive, Government, Cabinet, Senate, House of Commons, House of Assembly, Legislative Council,Imperial Parliament, Congress, Bill, Act, British North America Act.
II. [5] Mar. '77.

1 If sugar is bought at 7 cents a pound and sold at 11 cents, what is the gain per cent.?. . . . . . . . . . . . . . . . . . . . . Ans.
2 What is the interest of $\$ 70$ for 4 years and 8 mos. at 6 per cent. ?. . . . . . . . . . ..... . . . . . . . . . . . . . . . . . . . . . . . . . Ans.
3 What is the price of 488 yds . of cloth at 2 s .6 d . per yd.? Ans.
4 If a property brings $\frac{3}{4}$ of its value every nine years, how much per cent. is received on it each year ?. . . . . . . Ans.
5 Find the price of $16 \pm$ yds. at I4 $\frac{1}{4}$ cents per yard...... Ans.
6 How many steps will a soldier take in walking a mile, if the length of each step is 2 ft .6 inches?......... . . . Ans.

Answers inust cxhibit the whole operution.
II. [6] Mar: '77.

Arithmetic.
Tince, 1 hr .30 m.
1 Detail the different steps you would adopt in presenting Simple Proportion to a class of beginners, so as to lead the pupils to infer the Rule.
2. Two fields have a joint area of 14 acres, 2 roods, 13 per., 8 yds.; and the area of one is 4 acres, 3 roods, 14 perches,
'13' yaids. What is the smallest fraction representing their comparative magnitudes?
3 If 16 mein in 14 days of 8 hours each can dig 564 yds of a drain which was to be $1 \frac{1}{2}$ miles in length, how many men prill, be required to finish the remainder in 36 days of 10 hours each.
4 - Find by Practice the price of 85 cwt. 3 qrs. 16 lbs . (long weight) at $£ 12$ 4s. 8d. per cwt.
$5^{1}$ At what rate per cent. would $\$ 460$ amount to $\$ 1,000$ in 14 .n.1. years, simple interest?
6. Reduce 5482 p in the senary scale to the quaternary, and proye the reswith by reduçing the 2 numbers to the decimal scale.
7 ". Add together 3 of $\frac{8}{15}$ of $\$ 34 \mathrm{~s}$;, ${ }_{3}^{3}$ of five guineas and .364 of fon 4 s .6 d ., and reduce the result to the decimal of $£ 40$.
8 Upon what principle is the Elementary Text-Book of Arithmetic constructed? ' Iilustrate your answers by examples.
. The Examiner will estimate Parts I and II as of equal value.
II: [7] Mà Tr:
Geography.
Time, $1 \mathrm{kr}: 30 \mathrm{~m}$.

## I.

1 In an imaginary royage from St. Petersburg to Constantinople, name the chief coast waters, capes and islands, noting anything remarkable respecting them.
2 Name the colonies and foreign possessions of Great Britain, in Europe and in Asia.
3 Name in order the Eastern Counties of England from the Cheviot Hills to the Sitraits of Dover. Give the localities of the great coal fields of England, and the chief seats of the manafacture of cotton, woollen, and hardware.
4. Where and what are the following:-The Hebrides, Crimea, Siam, Moluccas, the Levant, the Hague, the Solent, Joppa, The Golden Horn, the Antilles?
5 . Enumerate the chicf causes on which the climate of a country depends.
6 What is meant by the Sun's declination? How can it be found from the Giobe? When found, how can you tell where the sun is vertical?

## II.

Braw from memory an outline map ( 1 ) of the basin of the St. Lawrence; and (2) of North America, with the chief rivers and mountains accurately marked in each.

1 Define the terms circumlocution, tautology, redundancy, .. and give examples of each.
2 Distinguish between enlargement and expansion, and give three examples of each.
3 Put the following into prose order without destroying the sense:
"Who was the thane, lives yet;
But under heavy judgment, bears that life, Which he deserves to lose. Whether he was
$\therefore$ Combined with Norway: or did line the rebel
With hidden help and vạntage; or that with bẹth
He laboured in his country's wreck, I know not;
But treasons capital, confessed, and proved,
Have overthrown him."
4 Arrange the following separate propositions into one sentence:
A. The dolicate mental pictures may appear to have vanished.
$\times \mathrm{B}$. The mental pictures have been pritited in invisible ink.
$b^{\prime}$ Printed as it were in invisible ink (adv. compticond.) .
$+C$; The pictures will come out with sufficient clearness and distinctness.
$c^{\prime}$ They are subjected to the heat of an excited imagination(adv. time.)
6 'Write a letter to a Teacher describing your mode of teaching Composition before the pupil is prepared to take up a text-book:

## II. [9] Mar. '77. <br> Grammar and Analysis.

1 Give the general analysis of the following passage:-
i- Then with expanded wings he steers his flight
Aloft, incumbent on the duskiy air,
That felt unusual weight, 'till on dry land ${ }^{4}$
He lights; if it were land that ever bumed
With solid as the lake whith liquid fore.
2 Cive the detailed aualysis in the form indicated below:-
Form.

$.3 \cdot$ Parse in itabular form the words in itulics. $\cdot:$.

Forar.

| Word. | Class | Sub-Cluss. | Inflexion. | Syntax. | Rule of Syntax, |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

4 Define Inflexion, and state the purposes for which verbs, adjectives and nouns are inflected.
5 Define voice. What kind of verbs have two voices? When is a verb in the passive voice followed by the objective case?
6 Write the past tense and past participle of eut, yo, lie, think, die, drink, loose, singe, hew, lade.
II. [10] Mar. '77. British History. Time, 1 h.

1 Name the Danish Kings of England, and briefly describe their Reigns.
2 Name in the order of their accession the Kings of the early Norman period, and ennumerate the chief events in the reign of any one of them.
3 Under what circumstances did the battle of Poictiers occur. Describe the contest.
4 Under what circumstances were Ireland, Wales and Scotland severally united with England. Give dates.
5 What is meant by the British Constitution? Write a short account of its leading features.
6 Give a short account of one of the following persons:-Alfred the Great, Simon de Montfort, Shakespere, Oliver Cromwell, Marlborough, Nelson.
II.[11].Mar: '7.7. Book-Keeping. Time, 45 m .

1 Explain the following terms:-Shipment, Drawee, Acceptance, Protest, Bills Receiveable, Bill of Entry.
-2. Make the proper entries in the Day Book, Cash Buok, and Ledger, of the following transactions:-
A. Richards invests in business $\$ 3,000$ in Cash; $\$ 4,240$ in Mdse.; Notes against others, $\$ 400$; he owes $\$ 430$ to T. Jordan, and $\$ 100$ to G. Adams. He takes for his private use $\$ 200$, and Goods to the value of $\$ 160$. .

3 Write out a specimen " Joint Promissory Note," using fictitious names; also a Receipt for six months' rent of a house owned by you.
II. [12] Mar: '77. Chemistry of Conmon Things.

Time, 45 m .
1 State the composition of the different kinds of hard water. How can hard water be softened?' Explain.
2 Describe three experiments which may be performed to illustrate the properties of Oxygen.
3 Write in tabular form the properties of Hydrogen, Nitrogen, and Carbonic Acid.
4 What is Ozone? Describe its action as a disinfectant.
j What is the chemical composition of Bönes? Explain how they are nourished. What is their value as a fertilizer?
fer Fiemale Candidates are not requiral to work this paper, but credit will be given for work done.
Ansucrs must exinibit the whole operution.
1I. [13] Mar. '7T.
Algebra.
Time; $1: \mathrm{h} .30 \mathrm{~m}$.
1 Distinguish between factor and coefficient, power and exponent, dimensions and degree, and give an example of each.
2 Show by means of exauples, how you would lead a pupil to infer the rule for the signs in Division.
3 Give the formulas for the resolution of trinomials into binomial factors. Frame and resolve two examples.
4 Demonstrate (1) the two principles upon which the rule for finding the greatest common measure depends, and (2) demonstrate the rule itself.
5 Simplify the expression $\frac{3}{x+1}-\frac{2 x-1}{x^{2}+\frac{x}{2}-\frac{1}{2}}$
$6 \frac{x-1}{4}-\frac{x-5}{32}+\frac{15-2 x}{40}=\frac{9-x}{2}-\frac{7}{8}$
7 An officer can form the men of his regiment into a hollow square 12 deep. The number of men in the regiment is 1296. Find the number of men in the front of the hollow square.
8 A and B. can perform a piece of work together in 48 days; A and $C$ in 30 days; $B$ and $C$ in $26 \frac{2}{3}$ days. Find the time in which each could perform the work alone.

II. [14] Mur. '7t. Geonetry. Time: 1 hr .30 m .

1 What is an angle! Name the different kinds of angles. State what illustrations you would use to convey to a pupil correct ideas respecting the magnitude of an angle.
2 . If two straight lines intersect, and one of the angles formed is a right angle, the other three are also right angles.
3 Name any exercises, whirh you would propose to your pupils to enable them to determine for themselves what a circle is. Prove that in equal circles. equal angles at the centrestand on equal ares.
4 What illustration would you adopt to lead your pupils to. infer that whatever be the form of a trianule, all its angles are together equal to two right angles? Name several deductions that may be made from this proposition. Cive the geometrical proof of the proposition.
5 Name the different kinds of four sided figures and give theirproperties. Prove that when two straight lines bisect one another, the lines joining their extremities form a parallelogram.
6 Prove that the locus of points equidistant from two intersecting straight lines is the bisector of the angle between them.
7 What is tire distinction between theorems and problemse! Construct a right-angled triangle, having given the hypothenuse and one of the acute angles.

1: What considerations besides attainments should be taken into account in classifying pupils?

- There are several modes of classification of pupils in Schools. State one you would adopt, and give your reasons.
3 Some pupils frequently come to school with unprepared lessons and umwitte exercises. How would you proceed to secure the co-operation of such pupils!
4 What proportion of time do you propose to set apmet for instruction in Aritlmetic and in Reading respectively! If you had threc classes in Arithmetic and threc ion Reading, show how you would distribute anomg them wow alloted time.

ILI. (2) Mrer: 'iT.
Teaching:
Timer: 1 hr. 30 m.
1 What use do you propose to make of the mackiboard in teaching the Anst steps of Reading! Deseribe your metheal of teaching Rearling at this staige.

2 What are the various uses to which the blackboard may be put in connection with class lessons in the First Reader?
3 State what means you would employ to make your pupils good writers.
4 Give the heads of a series of lessous in oral Geography.
5 What excellences in Arithmetic would you aim to secure in your pupils, and by what means?
III. [3] Mar. '77.

The Schoor System.
Time, 30 m .

1. How would you find the grand total number of days attended by all the pupils of a School, and the average number daily present for the Term?
2 State the requirements respecting (1) School Examinations, (2) Notices of Examinations, (3) the Classification of Pupils, (4) the awarding of Prizes by the Teacher:

3 Who is legally responsible for the entries in the School Register, and to whom does the Register belong?
$\pm$ What is the Teacher's duty in difficult cases of School discipline?
.) How long before the opening of the School is the Teacher required to be in the School-room?
(i) Specify the sources of support for Schools.

## III. [4] Mur: ${ }^{2} 77$. <br> Ganadian Histome. <br> Time, 1 hr .

1 Distinguish between the discoveries of Cartier and Cabot.
$\xrightarrow{-}$ Give the names and dates of the Treaties made between Eugland and France during the time that England ruled over the whole of North America from Labrador to Florida and from the Atlantic to the Mississippi. Showy what territory England gained or lost by each of them.
3 Describe the first siege of Louisburg.
4 Give a brief account of the expulsion of the Acadians from Nova Scotia.
$\therefore$ Explain the following terms:-Legislature, Executive, Govermment, Cabinct, Senata, House of Commons, House of Assembly, Legislative Council, Iuperịal Parhament, Congress, Bill, Act, British North America Act.
-lisicers minst be witten on this paper.
III. [5] Mar: 'it.

Mental Amthametic. .
Time, 8 m.
1 If 24 yds. of cloth cost 88 , how many yds, can be bought . . for $\mathbf{x} 458$

2 Find the price of 81 articles at 51 cents each......... Ans.
3 Multiply 4,864 by 125 . . . . . . . . . . . . . . . . . . . . . . . . . . . Ans.
4 If a person earn a dollar a day and save 25 cents of it in how many days would he be able to pay off a debt of $\$ 18$ ? Ans.
, What is the interest of $\$ 840$ for 8 years at 5 per cent? Ans.
6 Which is greater, $\frac{7}{8}$ or ${ }_{9}^{8}$, and how much?............. . Ans.
IIl. [6] Mar. '77. A rithmetic. Time, l hr. 30 m .

1 How often wrould a wheel 24 ft .6 in . in circumference, revolve in running between Fredericton and St. John, a distance of 64 miles?
2 How many cubic feet of air does a School-room contain, whose length, breath and height are respectively 28,28 , and 12 feet? What should be the maximum number of pupils, if to each is allotted at least 150 feet of cubic air?
3 If $\$ 0.40$ will buy 70 yds of cotton when it is 1 yard wide, what amount would be required to buy 45 yards threequarters wide.
4 Whether is the product of $3_{10}^{1}$ by $2_{9}^{1}$, or the product of $2_{10}^{1}$ by $3_{9}^{1}$ greater, and what is the difference?
5 Divide the sum of $3 \frac{1}{4}+\frac{2}{3}$ of $\frac{1}{5}$ by $1_{3}^{\frac{2}{3}}$ of $7 .{ }^{\circ}$
6 If the circumference of the earth is 24,000 miles, in how many months of 30 days each could a steamer sail round it at the rate of 18 miles an hour, including two delays of 14 hours each for coaling?
7 Find loy practice the price of 5 yds .3 qrs. of cioth at $£ 2 \mathrm{~s}$ s. 4d. per yard.

The fimminer vill estimate Parts I and II as of cqual velue.
III. [7] Mar: '77.

Geography.
Time, $1 \mathrm{hr}: 30 \mathrm{~m}$.

## I.

1 Define longitude, meridian, isthmus, zone, rational horizon.
2 Name in order the coast waters, capes, islands and mouths of rivers one would pass in sailing from Berwick-on-Tweed to Land's End.
3 Describe the course of the following rivers:-Fraser, Saskatchewan, Ottawa, Saint John.
4 Name the countries of Europe with their capitals.
$\Rightarrow$ Explain the formation of dew.
II.

Draw from memory an outline Map of New Brunswick, with the chief rivers and towns accurately marked.

Composition.
Time, 1 h .
1 Correct or justify the following expressions :-
He don't know when to come. He ought not have had to have done it.
He divided the remainder between they and me. They could not have saw it laying there. He has several times went to the shop that is handy. The two boys look near alike, the elder fell in the river yesterday. Whom say ye that I am? Whom the gods love die young. The dress of the princess was very graceful. Next these is placed the vile blasphemer; him whose impious wit profaned the sacred mysteries of faith.

## Narrative.

Oulline :-It is Mary's birth-day-their father takes her and Fred to the City-they wonder at the busy streets-their father has to leave them for a little-they look in at the windows-they are weary-Fred tries to cross the street-he falls-a horse and van are coming up-some one pulls Fred out of the way-he gets up on his feet-looks round to see who had been so kind-it is the little girl (no longer a beggar) to whom they had once been so kind-Mary tells Fred, a good deed is never lost.
Questions:-What day came round? Where did their father take Mary and Fred? At what did they wonder? What had their father to do? What did they look in at? How did they feel? What did Fred try to do? What happened? What were coming up? How was Fred taken out of the way? What did he do? Why did he look round? Whom did he see? Where had they met her before? What did Mary say:
(a) Write in order formal answers to the above questions.
(b) From your formal answers write a story in the form of a letter from Mary to a friend.
III. [9] Mur: '77. •Grammar and Analisis. Time, 1 h.

1 Give the general analysis of the following passage:All worldly shapes shall melt in gloom, The sun himself must die, Before this mortal shall assume Its immortality.
2 Give the detailecl analysis in the form indicated below:[See the Form given under Class II.]
3 Parse in tabular form the words in italics;
[Siee the Form given under Class II.]
4 Classify the words-light, round, square, die, use, farther, so.
.5 Give all the inflexions of lion, be, he, I, go, pretty, went, came.
(i) Write the plural of lady, man, pea, chimney, hoof, wharf, cherub, genius, axis, penny.

The following persons, Examined in March last, received Provincial Licenses from the Board of Education of the Classes indicated below.

## EIRST CLASS.

Willian J. Fowler, Grand Falls.
second class.
Gillis H. Burnett, Hayes' W. O., Norton, Kings County.
Bradford C. McKeen, McKeel's W. O., Keswick Ridge, York County. John A McGuire, Waterville, Carleton County.
Daniel Gillis, Kingston, Kent County.
Melbourne F. Keith, Havelock.
Wesley E. Everett, Lower French Village, York County.
Amasa W. Crable, New Jerusalem, Qucens County.
James Lawson, Frcuericton.
Julian G. Nobles, Grafton, Carletọn Couputy.
Stanley E. Moore, Portlaud, St. John.
John J. Clarke, Springfield.
S. L. Tilley Frost, Hampton.

Walker B. Flewelling, Oak Point, Greenwich, Kings County.
William B. Parent, Upper Queenshury, York County.
William E. Young, Bear Islaud, York County.
Isame H. Hallett, Sussex.
Charles L. 'Iracy, Gladstonc, Sunbury County.
John R. Fleweliing, Clifton, Kings County.
Margaret R. Gray, Portland, St. Johm.
Annie Morill, Newcastle.
Henrietta MI. Thompsou; St. John.
Helen A. Morrison, Carleton, St. Join.
Amy M. IIdles, Portland, St. Johm.
'Iheora Fillmore, Moucton.
Alicia R. Greene, Portland, St. John.
Sarah G. Adams, Bloomfield, Kings County.
Helen E. Woodcock, Tower Hill, St. David.
Helen Adam, St. Johm.
Hattic Cochrane, Moncton.
Sarah A. Joye, St. Stephen.
Mary H. Ioring, Prince Willian Station, York County.
Carolina I. Warman, Kingston, Kent Cuanty.
Ammie J. McIeod, Newcastle.
Hettic E. McKKen, Gibson.
Ella K. Turner, St. John.
Mary G. Gumn, St. John.
Dora E. Smith, Cipper Coverdale, Albert County.
Joamm Atkiuson, Richibucto.
Annic McLean, Kingston, Kent County.
Amie E. Buchnnan, Sussex Vale.

Sarah J. Price, Canaan Forks, Queens County. Marion E. Jack, Springfield. Annie M. Huestis, Fredericton.
Clara A. Young, Galloway, Kingston, Kent County.
Nanie H. Price, Havelock.
Phœbe P. Colter, Upper Keswick Ridge, York County.
Josephine M. Kinnie, Harvey Corner, Albert County.
Gertrude A. Thomson, Newcastle.
Eleanor M. W. Carey, St. John.
Eliza M. Adams, Douglastown.
Alice K. Meagher, Fredericton.
Mary Louise Hunt, Fredericton.

> milird class.

Calvin F. Alward, Havelock.
Alonzo Kelly, Stanley.
Angelina Sanburn, Indiantown.
Eliza Greer, New Maryland, York County.
Lizzie A. Cochrane, St. Stephen.
Eva F. Moore, Moore's Mills, St. Stephea.
Athelina E. Sharp, Apohaqui.
Clara L. Sulis, St. John.
Ammie P. Gilman, Fredericton.
John Caldwell, Cumberland Bay W. O., Queens County. George W. McEwin, Lower Maugerville, Smabury County. A. Judson Brown, Upper Queensbury, York County. Isaac N. Thorne, Gasperesux Station, Queens County.
Margaret A. Long, Springfield.
Eliza J. Alexander, Fredericton Junction.
Mary E. Thomson, Fredericton.
Maggie J. E. McRae, Black Brock, Chatham.
Mary J. Morgan, Fredericton.
Cecilia E. Smith, Fredericton.
Isabella A. Mitchell, Scotch Settlement, Mactuarquack, York County.
Mina Milton, Hillsborough.
Annic A. Greaves, Bright, York County.
Pamelia J. Carter, Middle Cuverdale, Albert County.
Josephine Hanson, Bocabec, Charlotte County.
Lillie Hanson, Bocabec, Charlotte County:
Mary A. Paul, St. John.
Hamnah White, Indiantown.

## PROFESSIONAL MISCELLANY.


#### Abstract

"Wre ofres find," says the Pishep of Exeter, "that when teachersiancy their pupils have obtained a thorough mastery of a subject, they are deceived, because they have not noticed that, in almost imperceptible ways, they have been doing for the pupil what he ought to be doing for himself. I have repeatedly gone into a school, and on examining it, say in arithmetic, have been told by the master: 'It is very strange that the boys do not know it; I thought they knew it thoroughly.' I have always asked them this: 'When you have examined them, have you made them answeri for themselves?' And the reply has been: 'Yes; Ihave left them with themselves except just the very slightest possible help occasionally : just enough to prevent them from wandering about.' That is the whole thing. That very little help is the thing which vitiated the examination altogether; and the rest of real mastery is that the knowledge shall be produced without any help at all. When a man or woman in after-life come to use their knowledge, they will find that the knowledge is really of no use unless they are able to apply it absolutely without assistance, and without the slightest guidance to prevent them falling into the most grievous mistakes."


A Cyclopedia of Education is in course of preparation in the United States, the first ever published in English. The article in this Circclar on "Corporal Punishment" will appear m the Cyclopedia.

Great emphasis is justly laid upon thorough instruction; but the mistake is often made of putting exhaustive for thorouylh. One may know little of a given department of knowledge, yet luow that little just as thoroughly as if one were acequainted with everything that pertains to the department. One may have a clear comprehension of the great principles, laws, of any science, yet be totally ignorant of nine hundred and ninety-nine facts in every thousand known to be embraced by those principles or those laws. Now, it happens that too frequently text-books are made,
and too frequently teachers attempt to teach, on the exhanstive plan. Cramming is the inevitable result, instead of rational instruction. Every text-book designed for public schools should be made, flrst, with reierence to the best educational, seconcl, with reference to the greatest practical, results derivable, not from one study, but from the whole course. Agreeably to these requirements, the books should be made large or small, more or less exhaustive, but always rational, always according to sound principles of instruction. And teachers of the public schools should always labour with the same objects in view, not unduly fostering one study, and neglecting another, because they chance to like the former while they dislike the latter.-Sitetson.

There is fallore to secure energetic work and the best results, from lack of enthusiasm. Without this no teacher can have the best success, however learued and faithful and hard-working he may be. Enthusiasm is the heat which softens the iron, that every blow may tell. Enthusiasm on the part of the teacher gives life to the scholar and an impulse to every mental power. It gives the work of the school-room a quickening impulse, and by this impulse makes the scholar a gatherer wherever he goes. It gives to the scholar independent power; power to go alone. When this is accomplished, there is no more waste in liiting, dragging, or driving. It is said one loses this enthusiasm after a while. Then one ought to stop teaching. If one caunot grow enthusiastic in presenting for the fiftieth time to a now mind, the simplest operations in arithmetic, for example, with a view to calling into free exercise the latent energies of that mind, then one is unfit for one's work. Stone or clay or wood or iron, which can yield only to force but con never take form at the mere glow of enthusiasm in the worker, is the fitting material on which such a one should spend labour.

Thar instruction or that education which dues not make prominent justice
as well as benevolence, lur as well as liberty, honesty as well as thrift, and purity of life as well as enjoyment, is essentially defective. Those who attain to a love of labour, of truth and justice and nusullied honowr, are alone capable of exercising that spirit of self-sacrifice which ensures the verities of life, and blesses the world.

Imperfect Teaching, says Dr. Chadbomne, of Williams College, is a source of great waste. "I do not so much refer to the defective knowledge imparted in the school-room, as to the wretched habits of study formed in some schools. These are schools without system, without any standard of accurate scholarship, and without any enthusiasm ; for a genuine enthusi:sin for study is impossible under any false system of instruction, The pupil labours, but it is as one might labour piling stones together to form a wall without any reference to the mature of the work in hand, stones of all sorts going alike into foundation and top." Not only is much of the labour in such a school lost, but the habits there formed cling to the pupil ; and it is only in rare cases that they aro ever entirely corrected. Those who receive pupils from such preparatory schools sympathize with the old Greek musician, who charged double price to those who had ever taken lessons before coming to him-one half for correcting bad habits.

Moch loss comes from the lungling recitations of those who might be trained to accuracy. It is too often the case that the pupil is allowed to stumble throngh his work, showing only here and there any proper understanding of the subject, so that he gains nothing in clearness of thought, accuracy of information, or precision in language. A little more careful labour on the part of the pupil, a little more pressure in the right direction on the part of the teacher, would render the work of both of double worth.

It is no waste of labour to spend time on dull scholars, if we attempt to teach them only what they are capable of learning and what it is essential they should learn. They are entitled to extra labour. But the mischief is, stupid pupils are often forced, by their parents or by their own over-estimate of their powers, into classes where they are a dead-weight upon the movements of all
commected with them. The exhaustion that comes to the faithful teacher from daily lifting and pulling and encouraging and driving such pupils is known only to those who have toiled long and seen their efforts as useless as attempts to warm slow.

It is marvellous what a number of marriages and special occasious occur in some families, - as an excuse for taling sons and daughters from school. The sons of some families are almost always absent at the beginning of a term. The parent sends an excuse which every teacher feels is no excuse. The scholar is injured by the loss and the whole class feels the effect. The teacher's work is hard enough at the best. To load him with extra work, by irregularity in the performance of school duties ou the part of pupils; or to depress him by rendering his labours, term by term, defective, through the caprice of the pupil and the inconsiderateness or ignorance of the parent, is a misfortune to him and a shame to the offenders.

Pupils should have too much work to do in the essentials of arithmetic to spend time over complicated puzzles, questions which no one should undertake to answer till well versed in algebra and geometry. At the proper stage, such puzeles, which are a discouragement to the young scholar because he thinks them essential to the subject, will be solved in the natural progress of his work. They are an annoyance and discouragement when introduced before their time, before the study of the principles on whirh their solution depends.

The outlines of geography and his. tory should be so fully secured in school that the reading of the newspaper shall be intelligent work, because the scholar knows where events transpire; and such training in natural history should be secured that the senses shall be on the alert for the forms and phenomena of the natural world.

Macuinery is as essential in a school as in a factory, but the simplest machinery possible that will accomplish the work is the best in both. Simplicity and directness are doubly cssential in a school, because you are dealing with living beings ; and it is the contact of the living teacher witl. the pupil in the whole process of education that arouses activity and makes every germ of know-
ledge quicken to the fullest development.
IT IS A fallacy that "he who knows a subject can teach it." The postulate, that a teacher should thoroughly know the subject he professes to teach, is by no means disputed, but the question is to be mainly decided by considerations lying on the pupils' side of it. The process of thinking, by which the pupil learns is essentially his own. The teacher can but stimulate and direct, he can not supersede it. He cau not do the thinking necessary to gain the desired result for his pupil. The problem, then, that he has to solve is how to get his pupil to learn; and it is evident that he may know the subject without knowing the best means of making his pupil know it too, which is the assumed immediate end of all his teaching. He may be an adept in his subject, but a novice in the art of teaching it-an art which has principles, laws, and processes peculiar to itself.

The development of a ohild's powers under the influence of external circum. stances constitutes his natural education. Formal education in the schools should: continue and supplement natural education, and, the necessary change being made, recognize and adopt the same agencies, processes and means. On this view, it follows that sound teaching, in general, is the practical application of the principles of natural cancation. Will and Feeling being assumed, the following are conditioning Principles of education in general, and more especially that of the Intellect:-

General Principles.-1. Every child is an organism, furnished by the Creator with inherent capabilities of action, and surrounded by material objects which serve as stimulants to action.
2. The channels of communication between the external stimulants and the child's inherent capabilities of action are the sensory organs,-those organs by whose agency he receivesimpressions.
3. These impressions, or sensations, being incapable of resolution into any thing simpler than themselves, are the fundimentai elements. of knowledge. The development of the mind begins with the reception-the experience-of sensations.
4. The grouping of sensations forms percoptions, which are-registered in the mind'as covreptions or ideasy "(B3! "conception," or "ides," is meant the trace,
residium, or ideal substitute which represents the real perception.) The development of the mind, which begins with the reception-the experience-of sensations, is carried onward by the formation of ideas.
5. The action and reaction between the external stimulants and the mind's inherent powers, involving processos of development and implying growth, may be regarded as constituting a system of natural education. (The term 'development" is here employed to indicate that unfolding of the natural powers of which "growth" is the registered result.)
6. A system of cducation implies: (1) an education influence, or educator; (2) a being to be educated, or learner; (3) matter for the exercise of the leamer's powers; (4) a method by which the action of these powers is elicited; and (5) an end to be accomplished.

Principles of Nratural Education. -In the case before us, the educating intluence is Nature, or natural circumstances; the being to be educated, or learner, a child; the matter, the objects and phenomena of the external world; the method, the processes by which this matter is brought into communication with the learner's mind ; and the objects or end in view, intellectual developinent and growth. In view of the different agencies concerned in effecting this intellectual eduration, and their mental relation, we have the following principles of natural education:-

1. Nature, as an educator, recognizes throughout all her operations the inherent capabilities of the learner. The laws of the learner's being determines her action upon him, what she does, and what she leaves undone. She ascertains so to speak, from the child himself how to conduct his education.
2. Nature is the prime mover and director of the action and exercise in which the learner's education consists.
3. Nature moves the learmer's mind to action by exciting his interest in the new, the wonderful, the beautiful; and maintains this action through, the pleasure felt by the learner in the simple exercise of his own powers-the pleasure of developing and growing by means of acts of observing, experimenting, discovering, inventing, performed by himself-of being his own teacher.
4. Nature limits herself to supplying materials suitable for the exercise. of the learner's power, stimulating; thoser pow-
action. She co-operates with, but does not supersede, this action.
5. The intellectual action and exercise in which the learner's education essentially consists, are performed by himself alone. It is what he does himself, not what is done for him, that educates him.
6. The child is, therefore, a learner who educates himself under the stimulus and direction of the natural educator.
7. The learner educates himself by his personal experience; that is, by the direct contact of his mind, at first hand with the matter (object or fact) to be learned.
8. The mind, in gaining knowledge for itself, proceeds from the concrete to the abstract, from particular facts to general facts, or principles; and from principles to laws, rules, and definitions; and rot in the inverse order.
9. The mind, in gaining knowledge for itself, proceeds from the indefinite to the definite, from the compound to the simple, from complex aggregates to their component parts, from the component parts to their constituent elements-by the method of Investigation. It employs both analysis and synthesis, and often in close connexion.
10. The learner's process of self-education is conditioned by certain laws of intellectual action. These are (1) the Law of Consciousness; (2) of Attention, including that of Individuation, or singling out; (3) of Relativity, including those of Discrimination and Similarity; (4) of Retentiveness, including those of Memory and Recollection; (5) of Association, or Grouping; (6) of Reiteration, or Repetition, including that of Habit.
11. Memory is the result of attention, and attention is the concentration of all the powers of the mind on the matter to be learned. The art of memory is the art of paying attention.
12. Ideas gained by personal experience are subjected by the mind to certain processes of elaboration; as classification, abstraction, generalization, reasoning, and judgment. These processes imply the possession of ideas gained by personal experience, and they are all performed, in some degree, by the youngest child who posserses iders.
13. The learner's knowledge consists in ideas, gained from objects and facts by his own powers, and consciously possessed-not in words. Nature, by her action and influence, secures the lenrner's possession of clear and definite pximary ideas Such ideas, so gained, are nocessarily incorporated with the
ers to action, and maintaining their organic life of the learner's mind, and becomes a permanent part of his being.
14. Words are the conventional signs, the objective representatives of ideas, and their value to the learner depends on his previous possession of the ideas they represent. The words without the ideas are not knowledge to him.
15. Personal experience is the condition of development, whether of the body, mind, or moral sense.
16. Education as a whole consists of development and training, and may therefore be defined as the cultivation of all the native powers of the child, by exercising them in accordance with the laws of his being, with a view to development and growth.

The foregoing facts or principles being the results of an analytical investigation into the nature of the child as a thinking being, and into the processes by which his earliest education is carried on, discover the rationale of Natural Education. But as it is the same mind which is to be cultivated throughout, Natural Education is the pattern or model of Formal Education, and consequently the rationale of Natural Education is the rationale of Education in general. The formal educator or ceacher, therefure, who professes to take up and continue the education begun by Nature, or natural circumstances, is to found his methods of action upon the above principles, and in suppleinenting the work of Nature as an educator, he is to proceed on the same lines. He is not to intrude modes of action which contravene and neutralize the principles of natural education.

The Art of Elucution, or Teachiny.1. The principles already stated set the child or pupil before us as one who gains knowledge for himself, at first hand, by the exercise of his own native powers, through personal experience, and thercfore as a learner who teaches himself.
2. This is the central principle of the Art of Teaching. It serves as a limit to define both the functions of the formal teacher, and the nature of the matter on which the learner's powers are first to be exercised-that is, of the subject of instruction.
3. The limit which includes, also ex-cludes-it proscribes as well as prescribes. The teacher who regards the child as an learner who. is to.teack him-
self through personal experience, is therefore interdicted from doing any thing to contravene the 'leamer's own method-from needless telling, cramming, explaining, and even from correcting, merely on his own authority, the learner's blunders. The function assigned him by the principles of education is that of a stimulator, director, and superintendent of the learner's work, and to that office he is to confine himself.
4. But the limit in question determines also the character of the matter on which the learner's own powers are to be first exercised. If he is to teach himself, he can only do so by excrcising his mind on concrete objects, or actions - on facts. These furnish him with ideas. He cannot teach himself by abstractions, rules, and definitions, packed up for him in words by others; for these do not furnish him with ideas of his own. In all that he has to learn he must begin with facts--that is, with personal experience. It is clear, then, that the conception of the leamer as a self-teacher determines both the mamer and the means of teaching.
5. This notion of the Art of Teaching, which has specially in view the period of the child's life when the formal teacher first takes him in hand, in order to develop and train his mind, is capable of general application. It applies, therefore, with the requisite modifications, to instruction properly so called, which consists in the orderly and systematic building of knowledge into the mind, with a definite object.
6. The sum of what is here set forth is, that the Art of Education consists in the practical application of principles gained by studying the nature of the child and the natural means and processes by which his earliest education is carried on; the central principle, which governs all the rest, being that it is what the child docs for and by himself that eclucates him.

## Provisclal Normal School.

Fredericton, March 18th, 1877.
Dbar Sir,-I have used for the last twelve months in my classes in Geometry' Wormell's Text-Book in place of Chambers' Euclid, which was the Text-book for many years. I have found Wormell's preliminary illustration 3 and exercises of great service in giving correct conceptions of reometrical truths and in enabling the student w comprehend clearly the lugical demonstrations of the resulting propositions, and to apyreciate their value. Many of the students who profess-ed-a kuowledge of Euclid scemed for some time to indervalue the prelinininary exercises, until thoy found them the manis of removing many
erroneous conceptions which all teachers of Geometry know pupils are so liablo to form from the very mude in which the subject has until recently been presented. I have sumetinies ats an experiment required the students to prepare the demonstrations of the propositions before earetully going through the preliminary processes, and have almost invariably found misapprehension and lack of real interest.
I regret that I had not an opportunity to day, at our review exercises, of illustrating to the sisiturs the mode pursued in the linstitution in dealing with this subject.

I cordially endorse every sentiment contained in Dr. Harrison's letter to you as published in your last Annual Report, and I may be allowed to add that if Geometry is taught according to the principles laid down in the prescribed Text Book, I hold it an impossibility for a pupil to find the study dry or repulsive.

I am, dear Sir, yours truly, Wh. Crocket, Principal.
Theudore H. Rand, Esq, D. C. L., Chicf Supt. Education.

An angle is the difference in direction of two lines which meet, it only tend towards each other. It is not essential, that the lines actually meet in order to form an angle. An angle is not strictly speaking a corner; it is not the space between the two lines: it is the difference in their direction. The size of an angle, therefore, does not depend at all upon the length of the lines forming it. Nor does the name of an angle depend at all upon the position of the lines. Though it is not inathematically correct, yet it is popular usage, to apply the name "angle" to the vertex, or point where the two lines meet. For convenience, we shall frequently use the word.in this way. But see that the pupil understands the strictly scientific usages also: otherwise he will not get a clear compreheusion of some things.-Intermediate DIanual of Drawing by Professor Walter Smith.

A noy fifieen years old had been flogged and harshly treated at home and at school until he had lost his self-respect, and became utterly reckless of his character So bad, indeed, washe, that the trustees in his native district had caused his expulsion from the public school, His father, almost in despair, requested a teacher in the neighboring district, who was known for his great success in managing the worst boys, to try his son. On entering the school, the teacher lent him an interesting book, telling bim he might read it the first day, and not commence to study until he had become acquainted with the place. That night he told the boy he thought him capable of becoming one of the best scholars in
the school, and that if he would try to excel, he should have every opportunity afforded him, which would enable him to disappuint the expectations of everybody. The poor outcast opened his eyes with, astonishment, amazed that any one should speak kindly to and be interested in him. Fur several weeks he seemed to forget his wayward halits, and devoted his mind to study with remarkable success, to the surprise of all who knew his history. One day he became very angry because the teacher would not aid him, at the moment, in sulving a problem. He laid duwn his books and sat mursing his wrath, and when the teacher found leisure and offered to aid him, he tartly replied, "I do not wish it." When the school was closed the boy was requested to remain, doubtless expecting a flogging, as in former times; but what was his astonishment when the teacher sat down by his side and said, "Thomas, I thought you were willing, and meant to be a good boy, and I had given you a good name anong all your acquaintances, which seemed to give them great joy. Must I now go and tell them, that all my hopes for you are crushed, that all my kindness toward, and efforts to help yon, are lost?" Thomas wept under this appeal, for he had expected the whip or expulsion from school; and from that hour his reformation was confirmed. After he had found that one at least "cared for his soul," he became an excellent scholar, and was known for exemplary conduct, and a more worthy man than he now is camot be found in the neighborhood. He dates the turning point of his life and character to that hour with the teacher at the close of the school on that eventful day.

Now, suppose the teacher had allowed his anger to be provoked by the boy's sullen insolence, and he had scolded and whipped him, as others had done, instead of arousing the boy's benevolence and friendship, and awakening his selfrespect and regard for the opinion of others, he would have gone from that school but an outcast and an Ishmael. - Phrenological Journal.

At the last annual mecting of the American Social Science Association, Dr. D. F. Lincoln, Secretary of the department of health, submitted the following rules for the care of the eyes:When writing, reading, drawing, \&c., always take care that (a) the room is comfortably cool and the feet warm:
(b) there is nothing tight about the nock, (c) there is plenty of light without dazzling the eyes; (d) the sun does not shine directly upon the object we are at work opon; (c) the light does not come in front-it is best when it comes from uver the left shoulder; $(f)$ the head is not very much bent over the work; (g) the page is mearly perpendicular to the line of sight-that is, that the eye is nearly uppusite the mildle of the page, for an olject held standing is not seen so clearly ; and ( $k$ ) that the page or other object is not less than fifteen inches from the cye. In any cases where the eyes have any defect, avoid the drawing of fine mays, and all such work, except for very short tasks, not exceeding half an hour each; and in the moming never study or write before breakfast by candle light. Do not lie down when reading. If your eyes are aching from fire light, from looking at the show, from overwork, or other causes, a pair of colored glasses may be advised to be used for a while. Light blue or grayish blue is the best shade, but these glassses are likely to be abused, and usually are not to be worn except under medical advice.

Dr. Lincoly summed up the most conspicious results of the investigation into school hygiene as follows:-
(1.) School work if done in an unsuitable atmosphere, is peculiarly productive of nervous fatigue, irritability, and exhaustion.
(2) By " unsuitable," is chiefly meant "close" air, or air that is warm enough to flush the face, or cold enough to chill the feet, or that is "burned," or infected with noxious fumes of sulphur or carbonic oxide.
(3) Very few schools are quite free from these faults.
(4) Anxiety and stress of mind, dependent mostly on needless formalities in discipline or unwise appeals to ambition, are capable of doing vast harm.
(5) The amount of study required has not often been found so great as would harm scholars whose health is otherwise well cared for.
(6) Teachers who neglect exercise and rules of health seem to be almost certain to become sickly or "break down."
(7) Gymmastics are peculiarly needed by girls in large cities.

At fhe same meeting of the Social Science Association, Dr. S. S. Putnam said, -One way in which [school children may be greatly bencfitted is by
helping them perfect the process of respiration. This was demonstrated by the work done by Professor Munro with the children of the Boston schools. Good breathing is by no means common, and the singing teacher has always much to accomplish in this respect. Instruction in this regard may not only give vastly increased power to heilthy persons, but it may save many who are affected by lung diseases from early deaths. Proper physical instruction in schools would also relate to the sitting of the scholars, to proper methods of studying or of mental application, to proper means of ventilation, \&c. It is a notorious fact that many cases of injury to the spinal column arise from improper postures while sitting. Among 731 pupils at Neufchatel, 62 cases of this sort were observed among 350 boys and 156 cases among 381 girls. The curvature of the spine occasioned twas mostly to the right, caused no doubt largely by writing at unsuitable desks. * * Herr Ragg, of Berlin, says that he has found physical excreises very useful in preventing these spinal curvatures. For proper school gymnastics it is only requisite that there should be space enough about the desks to enable the pupil to advance one step and to swing the arms freely.

A large school hall with a few dexirable pieces of apparatus is all that is needed for further gymnastic exercise, which is to give to the scholars special accomplishments in this matter. In Europe, halls are now considered absolutely necessary for the use of scholars in the public schools.

The clay for the manufacture of the brick-half a million-for the new building erected for the Provincial Normal School, was dug subsequent to July 6th, 1876. The excavation for the foundations of the building was begun July 10th. The foundation and stone basement were begun July 20th and completed early in September. The first pressed brick was laid on the basement September 8th, and the last brick was placed on the walls October, 31st,-forty working days. A class of 80 studentteachers entered the building on May 15th, 1877, and two days later all the student-teachers, (148), with the Principal and his Assistants, took possession of the Class-rooms and Assembly Hall. The school rooms for the existing Model Departments, were ocenpied June 12th. The grounds are but partly cleared, graded, and fenced.


## OFFICTAL NOTICES.

No. 1.

## TEACHERS' INSTITUTE

A Teachers' Institute will be held in the Assembly Hall oi the Provincial Normal School, Fredericton, on Tuesday, Wednesday, and Thursiay, the 14th, 15th. and 16th of August, 1877. Attendance at this Institute is entirely voluntary. Teachers aud School Officers, who can attend all the seasions of the Institu-3, are cordially invited from all parts of the Provincoto be present. Introductory excreises in connection with the opening of the Nicw Normal School Building will be held at $100^{\circ}$ clock. at m., on Tuesday, at which it is cxpected His Honor the Lieutchant Governor will preside. The Railvays and the Rirer Steamers will grant free return passayes to those whose attendence at the institute shall be certified by the undersigned on their Tickets.

NO. 2
THE SCHOOL LAW AND REGULATIONS OF THE BOARD OF EDUCATION. A new edition of the School Manuat will be issued in August, 1877. Copies can be obtained Iree
of charge fron' tha County Inspector, or by application to this office. A copy of the Manucl ahould be upon erery J.cacher's desk.

Edecation Offici, Fredericton, N. B.
TEEODORE II. RAND, Chief Suph Education.


[^0]:    1 have uned as text-benks at diferent timus Davio's Lejendre. Chamben' Euclid, Galbraith and Hanghtwis Euchid, and Todhunter's Euclin. In my jubsinent, Worinell's Modern Plano Geometry is superior to any of theseas an iaterulaction $\operatorname{lo}$ the sciente. The physical cenceptions and illustra-
     Nelight inthe entindy of mang whem the bare atostrations of the science are unintelligible and
    
     able the aterage Teacher to do wiat hitherth could onij be done by a specialist in Geonetry: I şle uld upt umit to mention that Womuch is oue of the iew mathematical writers who give dun prominiciice to logical methiods. This fact makes his text-book, in my judgment, much superior to
     Univcrsity of NClo Brunswich:

[^1]:    * Exclugive of $807 ; 779$ returned as the value of Apparatus and Libraries, a large portion of which: has béen created within the past five years, but is'not included in the figures here giveh.

[^2]:    * As reported by the Trustece

[^3]:    * Compare with the provisinns of Keg. 22 (7).

