DESCRIPTIVE CATALOGUE

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MAPS, CHARTS, GLOBES, PRINTS, BOOKS, &c.

For Zale at the Educational Depository,

то

PUBLIC SCHOOLS

IN UPPER CANADA.



TORONTO: Printed for the Department of Public Instruction for Upper Canada, BY LOVELL & GIBSON, YONGE STREET.

1856.

PREFATORY NOTE.

In the selection of the articles enumerated in this Catalogue, the greatest care has been exercised, so as to render the list under each head, as complete as possible.

The most approved description of maps, apparatus, books and requisites published in either Europe or America, have been obtained by the Department, with a view to afford to our Canadian Schools all the facilities of instruction enjoined in the Schools of both these Continents.

To render a system of Public Instruction complete in all its parts, not only is a just and comprehensive law necessary, and a Normal School for training teachers indispensable, but it is of equal importance that the facilities afforded to teachers, in the schools, for effectively imparting instruction to the young, should be both varied and appropriate. The Mechanic, without the implements of his art, labours under not less inconvenience than a teacher without books, maps and apparatus. The object of this Department has therefore been to provide the Public Schools of Upper Canada with these facilities of instruction in ample variety and abundance; as well as to provide competent teachers and useful and interesting books for libraries.

In the Catalogue are given the net prices at which the maps and schools requisites enumerated therein may be obtained by the public Educational Institutions of Upper Canada, from the Depository in connection with the Department. In each case, cash must accompany the order sent. To all remittances sent by the Trustees of Common or Grammar Schools, or by Municipal Councils, for Maps and Apparatus, One Hundred per cent. will be added by the Department. Application for these articles should be made according to a form, which will be found on the next page.

Text books must be paid for at the full catalogue price. Colleges and Private Schools will be supplied with any of the articles mentioned in the catalogue at the prices stated. Local Superintendents and teachers will also be supplied with such Educational works as relate to the duties of their profession. No article, however, mentioned in the catalogue, will be disposed of to any private individual.

DEPARTMENTAL NOTICE.

To Municipal and School Corporations. SCHOOL MAPS AND APPARATUS.

The Legislature having granted annually, from the commencement of 1855, a sufficient sum of money to enable the Department to supply Maps and Apparatus (not text-books) to Grammar and Common Schools, upon the same terms as Library Books are now supplied to Trustees and Municipalities the Chief Superintendent of Education will be happy to add one hundred per cent. to any sum or sums, (not less than five dollars) transmitted to the Department; and to forward Maps, Apparatus, Charts, and Diagrams to the value of the amount thus augmented, upon receiving a list of the articles required by the Trustees. Sc. In all cases it will be necessary for any person, acting on behalf of the Corporation, to enclose or present a written authority to do so, verified by the corporate seal of the Municipality or Trustees.* A selection of articles to be sent can always be made by the Department, when so desired.

* The form of Application should be as follows :

SIR,—The undersigned, Trustees [*Reeve, or Clerk*] of — — — , being anxious to supply the (— — — —) with suitable school requisites, hereby make application for the [maps, apparatus, §c.,] enumerated in the accompanying list, in terms of the Departmental notice, relating to maps and apparatus. The [maps or requisites] selected arc, bond fide for the use of the school of the section [or *Municipality*,] and they hereby pledge themselves and their successors in office, not to dispose of them, nor permit them to be disposed of to any private party or for any private purpose whatsoever; but that they shall be appropriated exclusively to the use of the school of the Section [or *Municipality*,] in terms of the Regulations granting one hundred per cent. on the present remittance of §—.

In testimony whereof, the Trustees [*Recve, or Clerk*] of the_____ above mentioned_____hereto affix their names and seal of office this _____ day of_____, 185_, at_____. [*Name.*] [*Seal.*] We hereby authorise______ to procure for us the______ above mentioned,_____ in terms of the foregoing application. [*Name of Trustees, &c.*]

To the Chief Superintendent of Education, Toronto.

NOTE.—A Corporate Seal must be affixed to the foregoing application, otherwise it is of no egal value. Text-hooks cannot be furnished on the terms mentioned above. They must be p uid for in full at the net catalogue price. The 100 per cent. will not be allowed on any sum less than \$5, which must be remitted in one sum.

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Viii

DESCRIPTIVE CATALOGUE

OF THE

MAPS, CHARTS, GLOBES,

APPARATUS, BOOKS, &c.

for Sale at the Educational Depository to Public Schools in Upper Canada.

I. IRISH NATIONAL MAPS. (a)

1. MODERN GEOGRAPHY.

Canvas, Rollers, Colored and Varnished.

NET CASH

| | | SIZE OF MAP. | PRICE. |
|------------|---|--------------|---------|
| | | | |
| | | | \$ cts. |
| Map of | the World on a Globular Projection | 6:8 by 3:6 | 3 50 |
| <i>.</i> c | Europe | 5:8 by 4:4 | 3 00 |
| ** | Asia | ditto | 3 00 |
| " | Africa | | 3 00 |
| ** | America | ditto | 3 00 |
| •• | British America, including Upper and Low- | | |
| | er Canada, etc. (b) | ditto | 3 00 |
| " | United States | ditto | 3 00 |
| " | Pacific Ocean | ditto | 3 00 |
| 66 | Australia | ditto | 3 00 |
| " | England | ditto | 3 00 |
| 44 - 1 | Ireland | ditto | 3 00 |
| " | Scotland | ditto | 3 00 |
| 44 | British Isles (c) | 7:0 by $8:0$ | 5 00 |
| " | Geological Map, British Isles. (See page 18.) | | |

(a) These Maps are on a scale sufficiently large to show, with a peculiar boldness, the boundaries of the different countries. The courses of the rivers and the mountain ranges are so prominently marked, that at one view the attention of the pupil is directed to this important branch of the study; the introduction of only such names as are of importance, gives to the maps a distinctness which greately aids the teacher in pointing out the places designated.

(b) This Map was prepared by the Educational Department expressly for Public Schools in Canada.

(c) The size of the Map of the British Isles, the largest ever published, cannot fail, from its imposing appearance, to impress the mind of the pupil.

2. ANCIENT AND SCRIPTURE GEOGRAPHY.

| | | s | IZ | E OF | M | NP. | NET P R I | | |
|-----|--|----|-----|------|----------|------|---------------------|------|----|
| | | | | | | | | 5 ct | |
| Мар | Orbis Veteribus Notus (d) | 5 | : | 8 by | • 4 | : 4 | | 3 0 |)0 |
| | Italia Antiqua, with Plan of Rome | | | ditt | 0 | | | 30 |)0 |
| ** | Gracia Antiqua with Plan of Athens | | | | | | | | |
| " | Asia Minor, or Antiqua | 4 | : | 4 by | 2 | 10 |) | 17 | 15 |
| " | Terra Sancta, combining the Geography of the Old and New Testaments | | | | | | | | |
| 64 | Palestine, comprising Canaan, Land of Promise, | | | | | | | | |
| | the Holy Land, and Plan of Jerusalem, 4 maps in one | 4 | : • | 4 by | 5 | : 8 | | 30 |)0 |
| " | Ancient, or Scripture World | | | ditt | 0 | | | 3 0 |)0 |
| | N. Somistions Illustrations and Historical Char | ts | ef | e n | aoe | s 2) | 6 - 29. | | |

See Scripture Illustrations and Historical Charts, etc., pages 26 - 29.

II. W. & A. K. JOHNSTON'S MAPS.

1. LARGE SCHOOL ROOM MAPS, (e)

Canvas, Rollers, Colored and Varnished.

| Map of | the Eastern Hemisphere* | 4:2 by 3:6 | 2 | 38 |
|--------|-------------------------------|------------|---|----|
| " | Western Hemisphere* | ditto | 2 | 38 |
| " | Europe | ditto | 2 | 38 |
| ** | Asia | ditto | 2 | 38 |
| " | Africa | ditto | 2 | 38 |
| " | America | ditto | 2 | 38 |
| " | England | ditto | 2 | 38 |
| " | Ireland | ditto | 2 | 38 |
| " | Scotland | ditto | 2 | 38 |
| " | Canaan and Palestine | ditto | 2 | 38 |
| The ab | ove ten Maps in a wooden case | | | 00 |

2. SMALL SCHOOL MAPS.

| Map of | the Eastern Hemisphere* | 2: | 9 by 2 : 3 | 1 | 38 |
|--------|---------------------------------|----|------------|----|----|
| | Western Hemisphere* | | ditto | 1 | 38 |
| ** | Europe | | ditto | 1 | 38 |
| ** | Asia | | ditto | 1 | 38 |
| •• | Africa | | ditto | 1 | 38 |
| ** | America | | ditto | 1 | 38 |
| " | England | | ditto | 1 | 38 |
| " | Ireland | | ditto | 1 | 38 |
| " | Scotland | | ditto | 1 | 38 |
| ** | Canaan and Palestine | | ditto | 1 | 38 |
| The ab | ove ten Maps in a wooden case + | | | 16 | 00 |

(d) Orbis Veteribus Notus contains the Map of the World as known to the ancients, with plans of Rome, Athens, Syracuse, the World according to Ftolemy, and the Environs of Rome.

(e) These Maps are engraved in a superior manner, and are beautifully clear and distinct in their divisions and outlines.

*The Eastern and Western Hemispheres, of either series, may be had mounted together, or in pairs, on rollers and varnished—Price \$4 75 and \$2 75 respectively.

The painted wooden case, for hanging on a wall, contains the Ten Colored Maps on cloth and rollers; and is so constructed that any map can be drawn down as required, and pulled up again, by a cord at the side, as indicated by the name of the Map. The Maps in the wooden cases are not varnished.

3. MODERN GEOGRAPHY.

Cloth, Rollers, Colored and Varnished.

NET CASH

| | SIZE OF MAP. | PRICE. S cts. |
|--|-----------------------------------|------------------|
| Map of British America, including Upper and Low- | | - |
| er Canada (f) | 4:2 by 3:6 | 2 38 |
| Central Europe | | 2 38 |
| " France | ditto | 2 38 |
| " Italy | ditto | 2 38 |
| " India | ditto | 2 38 |
| " Spain and Portugal | | 2 38 |
| " The World (Mercator's) | ditto | |
| " The World (Mercator's) | 2:9 hv 2:3 | 1 38 |
| " United States and Canada | | 1 38 |
| Physical Chart of the World $(g.)$ (See pages 29-31) | $4 \cdot 2 \text{ by } 3 \cdot 6$ | 0.28 |
| Commercial Chart of the World, on Merca- | | |
| tor's Projection | 6:0 bv 4:8 | |
| Illustrations of Geographical Terms | 2:9 by 2:3 | 1 50 |

4. CLASSICAL AND SCRIPTURE GEOGRAPHY.

(For Johnston's Classical Atlas, see Grammar School Books, page 37 and 40.)

| Map | Orbis Veteribus Notus | 4:2 by 3:6 | 2 38 |
|-----|-----------------------|------------|------|
| •• | Græcia Antiqua | ditto | 2 38 |
| | Italia Antiqua. | ditto | 2 38 |
| •• | Asia Minor Antiqua | ditto | 2 38 |
| •• | Canaan and Palestine | ditto | 2 38 |
| ** | Canaan and Palestine | 2:9 by 2:3 | 1 38 |

III. W. & R. CHAMBERS' MAPS. (h)

| Map of | the World * | 5:2 by 4:5 | 3 50 |
|--------|----------------|------------|------|
| | Europe | | |
| " | Asia | | |
| | Africa | ditto | 3 00 |
| " | North America | ditto | 3 00 |
| ** | South America. | ditto | 3 00 |
| 64 | England | ditto | 3 00 |
| " | Ireland | ditto | 3 00 |
| " | Seotland | ditto | 3 00 |
| " | Palestine | ditto | 3 00 |

(f) This Map of Canada, New Brunswick, Nova Scotia, Cape Breton, and Prince Edward's Island, was prepared by the Educational Department for use in the Public Schools of Canada.

(g) The Physical Chart of the World shows the great mountain ranges, currents of the Air and Ocean, with Isothermal Lines (or the lines of equal heat and cold.)

(h) The initial letter of the names on these Maps, which may be regarded as outline maps, is much larger than those of the word itself, in order that the eye of the pupil may catch it more easily. *The Map of the World contains separate Maps, on a larger scale, of Australia,

New Zealand and Van Diemen's Land; also colored and beautifully designed ' illustrations of the annual revolution of the Earth round the Sun, the theory of the Seasons, theory of the Tides, Phases of the Moon, Solar Eclipse and Lunar Eclipse, together with a comparative view of the principal Mountains and Rivers in the World, Rivers in America, Europe, Africa, Asia, &c. &c.

KNOWLEDGE SO-CHRISTIAN LONDON IV. CIETY'S MAPS.

1. MODERN GEOGRAPHY.

Canvas, Rollers, Colored and Varnished.

NET GASH

| | | SIZE OF MAP. | | PRICE. | | | | | |
|--------|---------------------------------|--------------|-----|---------------|-----|-----|---------|----------|----|
| | | | | | | | | \$ c | |
| Map of | the World | 6: | 6 | ьу | 3 : | 4 | • • • • | 8 | 50 |
| | Canvas and Rollers. | | | | | | | | |
| Map of | the World (outline) | 6 : | 6 | by | 3 : | 4 | | 1 | 75 |
| | British Isles. (Outline) | 2: | 3 | by | 1: | 10 | • • • • | | 75 |
| | Canvas, Rollers, Colored and Va | | | | | | | | |
| Mapof | Europe | 5: | 3 | by | 4 | : 4 | • • • • | 3 | 00 |
| " | Asia. | | | antt | 0 | | | ð | 00 |
| ** | Australia | | | | | | | | |
| 46 | Africa | | | $_{\rm ditt}$ | 0 | | | 3 | 00 |
| . 1 | North America | 3 : | : 2 | by | 3 : | 10 | | 2 | 00 |
| " | South America | | | ditt | 0 | | | 2 | 00 |
| ** | England and Wales | 5 | : 0 |) by | 6 | : 3 | | 3 | 50 |
| | | | | | | | | | |

| South America | | 2 00 |
|-------------------|-----------------|------|
| England and Wales | 5:0 by 6:3 | 3 50 |
| England and Wales | 2 : 9 by 3 : 10 | 1 50 |
| Ireland | | 1 50 |
| Scotland | | 1 50 |

44

"

"

2. ANCIENT AND SCRIPTURE GEOGRAPHY.

Cloth, Rollers, Colored and Varnished.

| Six Historical Maps-1, the Assyrian-2, the Per- sian-3, the Macedonian-4, the Roman- 5, the Christian-and 6, the Mahometan | |
|--|-----------------------------------|
| Engines (i) | $3 \cdot 8$ by $3 \cdot 6$ 1.50 |
| Empires, (i) | $4 \cdot 1 = 0 \cdot 4$ |
| Old Testament Map of Syria | 4:1 by 2:4 200 |
| New Testament " Syria | ditto 2 00 |
| Map of the Land of Promise, illustrating the Patri- | |
| archal Ages, and the periods previous to | |
| the Conquest under Joshua | $1:10 \text{ by } 2:3 \dots 0.88$ |
| Map illustrating the Journeys of the Children of Is- | 5 |
| rael from Egypt to Canaan, with Map of | |
| Egypt and list of Stations | 2:5 by 1:9 1 00 |
| Map of Canaan, divided among the Tribes of Israel, | - |
| with Notes on the Physical Geography of | |
| the Holy Land | |
| Hughes' Map of Palestive (k) | |
| | |
| Map of the Holy Land in the time of Our Saviour, | |
| with Notes on its Physical Geography | |
| Map illustrating St. Paul's Travels and Journeys | 2:10 by $2:3$ 1 38 |
| Sheets. | |
| Outline Map of Canaan or Palestine | 1:10 by 2:3 7 |
| | |

(i) These Six Sheets are mounted together, forming one map. Each sheet is engraved alike, but not colored alike. A sheet is devoted to each Empire, and is so colored as to exhibit the historical boundaries by which the particular Empire was distinguished.

(k) These Maps are beautifully engraved. They exhibit on a large scale the they also contain separate sketch-maps of Syria and the peninsula of Mount Sinai, and the country between Palestine and Egypt. See pages 26 and 28.

V. VARTY'S MAPS. (l)

1. SCHOOL ROOM MAPS.

| | | SIZE OF MAP. | NET CASH PRICE. \$ cts. |
|--------|---------------------------|--------------|-------------------------------|
| Map of | the World (Mercator's) | 2:8 by 4:2 | 2 50 |
| 44 | " (Globular) | ditto | 2 25 |
| 66 | Europe | 2:8 by 2:2 | 1 25 |
| 66 | Asia | ditto | 1 25 |
| " | Africa | | |
| 44 | America | | |
| 41 | Australia and New Zealand | | 1 25 |
| *1 | England | | 1 25 |
| " | Ireland | | 1 25 |
| " | Scotland | | |
| ** | British Isles | 4:3 by 3:4 | |

2. COMBINATION MAPS. (m)

(Two each, Full and Outline, on one mounting.)

Map of the World, Mercator, with Outline Hemi-

| | spheres | 5:4 by $4:2$ | 3 50 |
|----|--------------------------------------|---------------|------|
| " | World, Hemispheres, Full and Outline | ditto | 3 25 |
| " | Europe | 2:9 by 4:2 | 2 00 |
| ** | Asia | ditto | 2 00 |
| ** | Africa | | 2 00 |
| 44 | America | | 2 00 |
| " | England | ditto | 2 00 |
| 41 | Ireland | ditto | 2 00 |
| 41 | Scotland | ditto | 2 00 |
| | (See also Scripture Geographical Ma | ps, page 14.) | |

3. FULL MAPS. (n)

| Map of the Roman Empire | 2:8 bv 2:2, 1 5 | 0 |
|---|---------------------|---|
| " India, or Hindostan, exhibiting the bounda- | v | |
| ries of each of the British Presidencies. | ditto 1 2 | б |
| Political Map of the World, Globular | 4 : 4 by 3 : 8 3 24 | 5 |
| - | | |

(1) These Maps are constructed with bold outlines, to fix permanently in the minds of the learners the physical form of each portion of the Eauth; the names of places are not numerous; confusion is avoided; and these advantages are combined with portability and cheapness.

(m) This series combines at one view the full and outline Map, affording great advantages to the teacher, by enabling him to instruct both analytically and synthetically, and also facilitates more correct conceptions of the varied physical forms of countries and localities.

(n) Among these full maps are, I. A large Political Map of the World, Stereographic projection, showing its political divisions; mountain ranges, boldly defined; and showing, 1. Its various features and phenomena; with the regions of its more useful productions, and the zones. 2. The Terrestrial or Northern Hemisphere. 3. The Currents of the Atlantic, Indian, and Great or Pacific Oceans 4. The heights of Mountains, to scale in America, Asia and Europe. 5. The Glaciers and Mountains of the Alps. 6. Geological figure of the Earth, and a Theoretical figure of a segment of the Mineral Crust of the Globe, equal to one sixtieth part of the radius. 7. The heights of Mountains shewn in their respective latitudes.

II. A large Physical Map of the World, Stereographic Projection ;--

4. PHYSICAL MAPS.

SIZE OF MAP.

NET CASH PRICE. \$ cts.

| Physical Map of the World, showing its various fea- | | | | | | _ | | | | |
|---|---|---|---|----|----|-----|-------|---|---|----------|
| tures and phenomena | 5 | : | 6 | by | 4 | : 9 | • • • | • | 6 | 00 |
| Physical Map of Europe, exhibiting its physical | | | | | | | | | _ | - |
| features | 5 | : | 0 | by | 4 | : 4 | • • • | • | 3 | 75 |
| Physical Map of the Earth, without names, Globular | 5 | : | 4 | by | 2: | 10 | • • • | • | 3 | 75 |
| Physical Map of Palestine, (See next Series.) | | | | | | | | | | |

5. SCRIPTURE GEOGRAPHICAL MAPS.

| Canvas, Rollers and Color | ed. | | | | | |
|---|-----|-----|------------|-----|----------------|------|
| Palmer's Map of Palestine and the adjacent coun- | | | | | | |
| tries, shewing their Ancient and Modern | | | | | | |
| Geography, with the routes of various | | | | | | |
| Travellers traced thereon, beautifully en | ~ | o 1 | | | | |
| graved | 2: | 3 1 | y s | : 4 | •••• | 2 90 |
| Archdeacon Wigram's Outline Map of Palestine, ex- | | | | | | |
| hibiting the situation of the principal | 1. | 01 | | | | 1 00 |
| places mentioned in the Bible Journeyings of the Children of Israel, (very full) | 0. | 01 | y 2 | | •••• | 1 95 |
| The Land of Canaan divided among the Twelve | 2. | 9 L | y 2 | | •••• | 1 20 |
| Tribes, beautifully engraved | 1. | 9 h | v 2 | . 0 | | 1 50 |
| The Land of Judea, or Palestine in the time of Our | • • | • • | 5 - | • - | | |
| Saviour, beautifully engraved | | dif | to | | · · · · | 1 50 |
| St. Paul's Voyages and Travels | | | | | | |
| Initiatory Map Chart of the Acts of the Apostles (0) | 2: | 6 b | ÿ 2 | : 6 | | 1 75 |
| Combination Map of the Land of Promise, illustra- | | | | | | |
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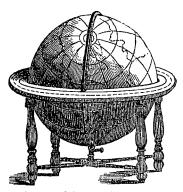
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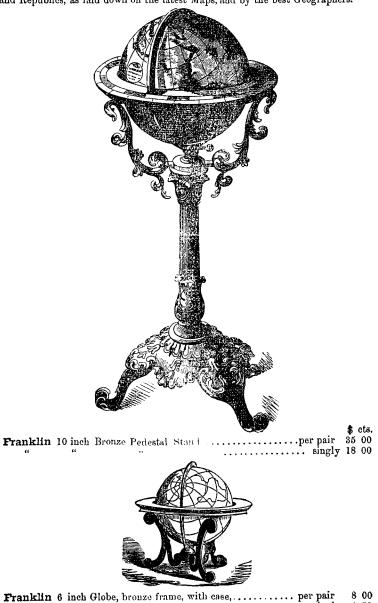
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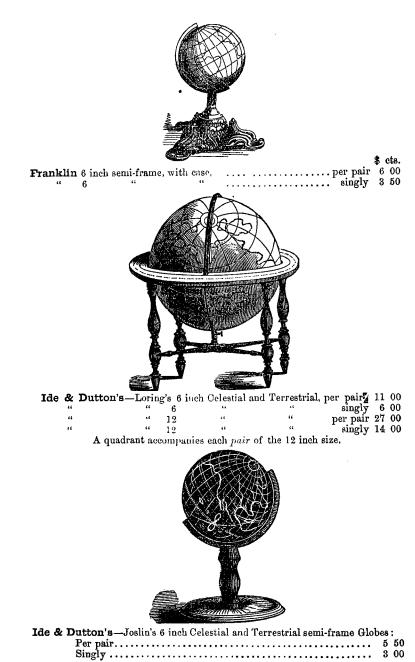
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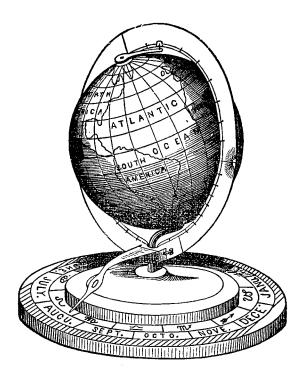
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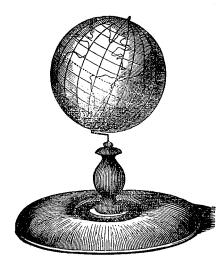


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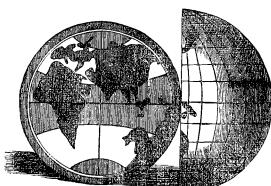
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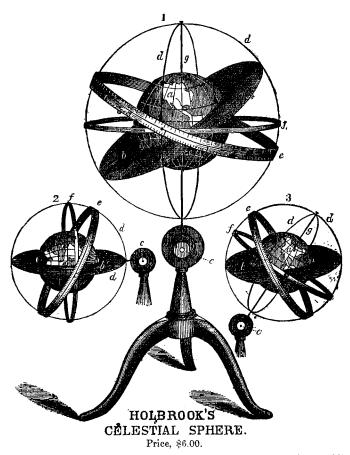


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| 4. The Death of Goliah. 5. The Birth of Christ. | 16. The giving of the Law. 17. Eli and Samuel. |

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 c. The slaughter of Innocents by Herod
 7. The Preaching of John the Baptist.
 8. Christ blessing little Children.
 9. The Crucifixion of Christ.
 10. The Angel appearing to the Women.
 11. Jesus appearing to Mary.
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 18. Moses striking the Rock.
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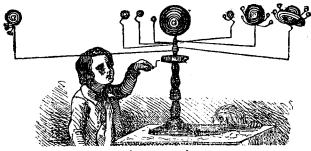
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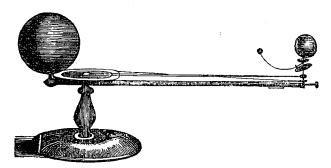
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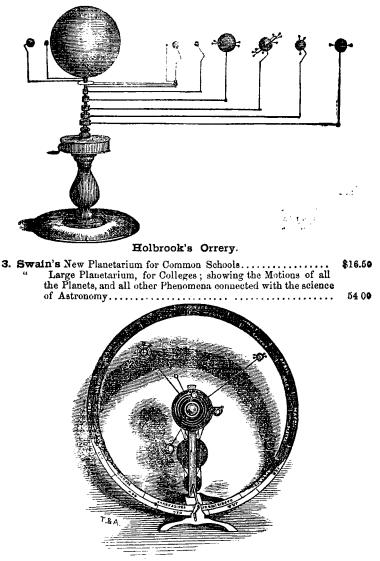
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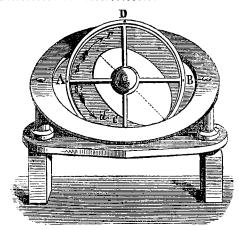


Fig. 1. Illustration of the change of Seasons.

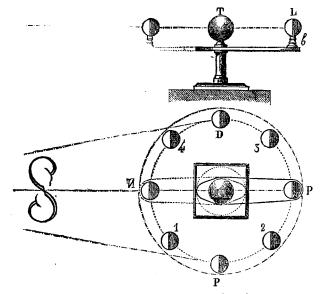


Fig. 2. Phases of the Moon-Figure, and section of figure.

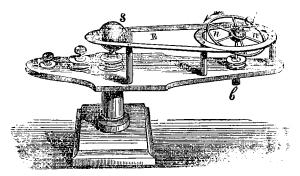


Fig. 3. Eclipses.

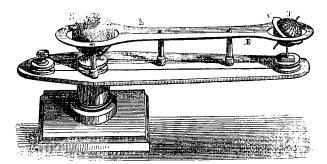


Fig. 4. Precession of the Equinoxes.

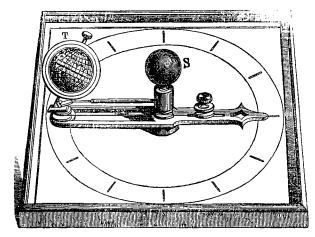


Fig. 5. Double movement of the Earth.

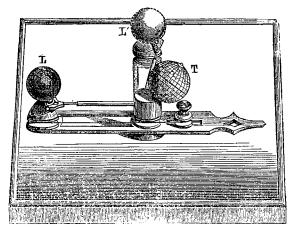


Fig. 6. Phases of the Moon.

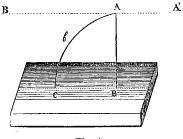


Fig. 7. a.

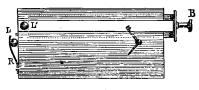




Fig. 7. Apparatus to illustrate the fall of Bodies.

8 and 9. Illustrations of Gyratory Movement.

10. Apparent Movement of the Planets.

11. Additional Model to illustrate the Precession.

(For Illustrations, Nos. 8, 9, 10 and 11, there are no engravings.)

XVIII.-LIST of TEXT BOOKS for COMMON SCHOOLS.

Published up the direction of the Commissioners of National Education in Ireland—prepared by practical and experienced Masters—and recommended by the Council of Public Instruction for Upper Canada, to be used in Canadian Schools; together with the maximum prices at which those Books will be sold, at the Educational Depository, Toronto. (The Council of Public Instruction has also recommended Lennie's English Grammar, and sanctioned the use of Kirkham's English Grammar and Morse's Geography.) The following are the Dublin Editions of the National Books [the Canadian Editions can be obtained direct from any bookseller].

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| Second ditto | | •• | •• | | 10 | 46 |
| Sequel to Second Book, | 18 | | 44 | \$1 | 10 | 4 |
| Third Book of Lessons, | 20 | 41 | " | \$2 | 15 | 41 |
| Fourth ditto | 25 | 41 | " | | 40 | <i>e</i> (|
| Fifth ditto (Boys') | | " | " | - | 40 | 44 |
| Sixth, or Reading Books for Girls' School, | 25 | ** | 46 | \$2 | 40 | 64 |
| Introduction to the Art of Reading | 20 | " | ** | \$1 | 90 | F L |
| Spelling Book Superseded, by Professor Sullivan | 25 | 66 | " | \$2 | 40 | 6 4 |
| English Grammar | 13 | 41 | ** | \$1 | 10 | 46 |
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| | 10 | 44 | " | \$1 | 00 | 61 |
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| Morse's Geography, (Am. Ed.), | 50 | 44 | 44 | \$ 4 | 80 | " |
| Kirkham's English Grammar, (Am. Ed.), | 38 | 46 | " | 84 | 20 | •• |
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[N. B.—The text books in the English Branches, prescribed for Grammar Schools, (see below) can also be used in the Common Schools when required.]

Admission of Pupils to the Grammar Schools.-Extract from the Grammar School Regulations.

Pupils, in order to be admitted to the grammar school, must be able, 1. To read intelligibly and correctly any passage from any common reading book. 2. To spell correctly the words of an ordinary sentence. 3. To write a fair hand. 4. To work readily questions in the simple and compound rules of Arithmetic, and in reduction and simple proportion. 5. Must know the elements of English Grammar, and be able to parse any easy sentence in prose; and 6. Must be acquainted with the definitions and outlines of Geography.

XIX. LIST OF TEXT BOOKS FOR GRAMMAR SCHOOLS IN UPPER CANADA.

Prescribed by the Council of Public Instruction, under the authority of the 6th Section of the Grammar School Act, 16 Vict., ch. 186.

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| | Quadrumana, | 2. | Spider Monkey. |
| Sheet A. \langle | Cheiroptera, | | Long-eared Bat. |
| (| Insectivora, | | Hedge-hog. |
| l | Carnivora, | 5. | Tiger. |
| , | Cetacea, | 1. | Common Porpoise. |
| | Pachydermata, | 2. | Hippopotamus. |
| Sheet B. $\left\{ \right\}$ | Ruminantia, | 3. | Red Deer. |
| Sheet D. Y | Edentata, | 4. | Sloth. |
| Ì | Rodentia, | | Squirrel. |
| l | Marsupiata, | 6. | Red Kangaroo. |
| | Class AvesFive | e Order | 8. |
| (Order | Raptores, illustrated by | Fig. 1. | Peregrine Falcon. |
| | Insessores, | 2. | Magpie. |
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| į | Natatores, | 5 | . Wild Duck. |
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| | Class Reptilia.—F | Pour Ordono | | | | | | | | |
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| | - | | | | | | | | | |
| 1 | Order Testudinata, illustrated by | | | | | | | | | |
| Sheet D. { | Sauria, | 2. Lizard. | | | | | | | | |
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| l | Amphibia, | 4. Common Frog. | | | | | | | | |
| | Class Pisces.—Nine Orders. | | | | | | | | | |
| ſ | (Order Acanthopterygii, Fig. 1. Perch. | | | | | | | | | |
| ĺ | Malacopterygii Abdominal | es, 2. Salmon. | | | | | | | | |
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| Sheet E. | Lophobranchii, | б. Pipe-fish. | | | | | | | | |
| ~~~~ <u>}</u> | Plectognathi, | 6. Globe fish. | | | | | | | | |
| | Sturiones, | 7. Sturgeon. | | | | | | | | |
| | Plagiostomi, | 8. Thornback Ray. | | | | | | | | |
| | a | 9. Dog-fish. | | | | | | | | |
| l | Cyclostomi, | 10. River Lamprey. | | | | | | | | |
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| Ì | / | 2. Pearly Nautilus. | | | | | | | | |
| | | 3. Cuttle-fish. | | | | | | | | |
| i | | 3a. Bone of same. | | | | | | | | |
| 1 | | 4. Calamary, or Squid. | | | | | | | | |
| | | 4a. Bone of ditto. | | | | | | | | |
| ļ | II. Gasteropoda, | 5. Whelk, or "Buckie." | | | | | | | | |
| | | 6. Top-shell. | | | | | | | | |
| | | 7. Vermetus. 8. Ear-shell. | | | | | | | | |
| } | | 9. Slug. | | | | | | | | |
| | | 10. Bubble-shell. | | | | | | | | |
| ľ | | 11. Animal of the Common | | | | | | | | |
| Sheet F. | | Limpet. | | | | | | | | |
| | | 11a. Shell of ditto. | | | | | | | | |
| | | 12. Eolis, or Sea Slug. | | | | | | | | |
| i | III. Pteropoda, | 13. Clio. | | | | | | | | |
| | IV. Lamellibranchiata, | 14. Mya. 15. Prickly Cockle. | | | | | | | | |
| | | 15. Prickly Cockle. | | | | | | | | |
| | | 16. Large Scallop, or "Clam." | | | | | | | | |
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| | | 17a. Lateral view of same, ex- | | | | | | | | |
| | | hibiting one of the | | | | | | | | |
| | | fringed arms, as if seen | | | | | | | | |
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| | | 4. Stag Beetle. | | | | | | | | |
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| | G | 11. Brown Ant. | | | | | | | | |
| | [Strepsiptera, | 12. Stylops. | | | | | | | | |
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| | | 2a. Cocoon, with the Chrysa- |
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| | | 4b. Ditto ditto at rest |
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| 5. Horse Chesnut. | 10. Weeping Willow. | 15. Poplar. |

Parts of Trees, a set corresponding to the above, representing enlarged views of

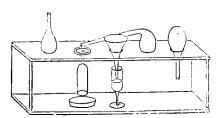
Darton's Sheet Prints, viz.: The Cotton Plant, coloured, with ten explanatory references, Vegetable Kingdom, No. 1), 0 30 No. 2, 0 33 Wild Flowers, &c., 10 illustrations ditto No. 3, 0 35 12ditto Fruits, ditto Wild and Garden Vegetables, 5 ditto ditto No 4, 0 33 ditto No. 5, 0 33 Grain, Corn and Grasses, 9 ditto Gardening (shewing its various operations), ditto No. 6, 0 33 Trees (6 on a sheet), ditto No. 7, 0 33 Sources of Food, on a sheet, coloured..... 0 33 Sources of Manufacture, ditto, 0 33

| American Cunder Cabeel Hales Tales It. | CASH P | RICE. |
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| American Sunday School Union Prints, Lithographic Print | | |
| Vegetables, mounted on cards, per set, | 0 60 c | ents. |
| No. 1. Representing Beet, Cabbage, Coffee, Carrot, Bean, Potato, | | |
| Onion, Turnip, and Pea; drawn on stone, coloured. | | |
| No. 2. Representing the Sugar-cane, Cotton-plant, and Tea-plant, | | |
| drawn from nature. | | |
| Griffin's Illustrations of Botany, 1. Leaves and Flowers. 2. Roots on | | |
| sheets 34 inches by 22, mounted on Rollers, each, | | |
| Reynolds' Range of Vegetation, and the Snow Line, colored. Size 1 | | |
| by 28 inches, in a paperportfolio, | | 30 |
| Reynolds' Popular Botany, an interesting Diagram, showing at on | e view | |
| the principles of this important science, with 27 colored illustra | | 0 20 |
| Reynolds' Natural Orders of Plants-a complete classified list of th | | |
| ural Orders, with the number of genera and species belonging to | | |
| with numerous colored illustrations | | 0 20 |
| Reynolds' Popular Botany, an interesting Diagram, shewing at one | | |
| view the principles of this important science, with 27 colored | | |
| illustrations, | $0\ 20$ | |
| Reynolds' Natural Orders of Plants-a complete classified list of the | | |
| Natural Orders, with the number of genera and species belong- | | |
| ing to each, with numerous colored illustrations | 0 20 | |
| Reynolds' Range of Vegetation and the Snow-line in all latitudes, | | |
| from 56° South to 71° North. In this picturesque Diagram is | | |
| presented a view of the principal Mountains and high lands of | | |
| the Globe, placed in order of latitude, shewing the elevation | | |
| of the snow-line and the beautiful arrangement of the Vege- | | |
| table creation from the sea-level upwards in all latitudes. | | |
| Compiled and Drawn by E. RAVENSTEIN, Geographer. On a | | |
| sheet, coloured, with wrapper | 0 30 | |
| Christian Knowledge Society's Map illustrating the influence of | | |
| climate upon Vegetation, on a stretcher varnished | $0 \ 45$ | |

(See also Physical Science, page 29, and Books of Reference, etc, page 54.

XXIII. CHEMISTRY, CHARTS AND APPARATUS.

1. CHARTS. (See page 78.)



Youman's Chart of Chemistry, in which the leading facts and principles of the Science are illustrated by Diagrams and colours in the most beautiful and simple manner. It contains about one thousand Diagrams, in sixteen different colours The illustrations refer to 1. Simple bodies; 2. Binary compounds; 3. Salts; 4. Mine-

This Chart represents the elementary substances in the form of parallelograms, on the left: and from these diverge in proper order, as in a genealogical map, the compound substances: the result being that the whole range of Chemistry, so far as the operations of Nature are concerned, is presented, in a bird's-eye view to the spectator. For schools this map will prove invaluable, simplifying the study of Chemistry wonderfully.

| NET CASH PRICE. |
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| Youman's Class Book of Chemistry, in which the Principles of Science are familiarly explained and applied to the Arts, Agriculture, Physiology, Dietetics, Ventilation, and the most important Phenomena of Nature. 12mo., pp. 340 |
| Youman's Chemical Atlas, with thirteen colored plates, constructed from the Chart. 4to., pp. 105 1 60 |
| Foster's Chart of the Organic Elements, beautifully colored, mount- ed on Rollers, with Cloth back, with text book, Am. Edi., <i>kb</i> 375 |
| This is a large lithographic chart, $4\frac{1}{2}$ by 6 feet in size, beautifully colored, and mounted on rollers. It shows at a glance the composition, propor- tion, and properties of the compound bodies of most frequent occur- rence. Its simplicity adapts it especially to the use of common schools and academies. |
| Foster's First Principles of Chemistry, illustrated by a series of the most recently discovered and brilliant experiments known to the Sci- ence. Adapted specially for classes. 12mo., Sheep, Am. Edi. <i>hb</i> , 50 |
| The work consists of a series of experiments in chemical science, with ampleillustrations of the leading theoretical principles. It is intended for the use of classes in common schools, and will be found admirably adapted to facilitate the progress of the learner in thet branch of education. The apprendix progressive to perform the experiments loid down in the |
| The apparatus necessary to perform the experiments laid down in the work. Manufactured expressly for this purpose by Dr. James R. Chilton. Price, neatly packed in a box |
| Griffin's Atomic Symbols for the illustration of Chemical Lecture: consisting of Coloured Cubes, about two inches square, intended to represent Chemical Atoms or Volumes. They can be easily grouped, so as to illustrate the Atomic Constitution of Compounds, the theory of Combination in Volumes, and the Double Decomposition of Salts. Price per dozen, any colour |
| Hydrogen, Pale Blue. Selenium, Pale Brown Heavy Metal, Blue. Phosphorus, Flesheree. |
| Gallaway's Chemical Plates, constructed for the Department of Science and Art. London, comprising: 1. Table of Elements, mounted on rollers and varnished. Size, 4 feet 3 by 3 feet. 2. List of Basic substances. |
| 3. List of Acid substances, 4. General formula of the more important Salts. Price for the set, mounted, &c |
| Griffin's Dietarles, in two large Charts, Coloured, and mounted on rollers. as follows: |
| Chief ingredient in varieties of Food: such as cheese, dry peas, cooked meat, oatmeal, barley meal, fish, wheat flour, indian meal, cocoa nibs, bacon, bread, green peas, rice, milk, sago, tapioca and arrow root, parsnips, cabbage, potatoes, turnips, carrots, beer, sugar, suet, fat or butter, showing the average result of various analysis. Size, 6 feet 3 by 2 feet 9. |
| Examples of Dietaries, English ounces per week to the English Sol- dier, French Soldier, Dutch Soldier, English Sailor, (fresh meat.) Greenwich Pensioners, Chelsea Pensioners. Prison Dietary, (three months hard labour.) Pauper Dietary, (average of English Unions.) Christ's Hospital School, Greenwich School, Arctic Travellers in Fort Confidence. Size, 2 ft. 10 by 2 ft. 3. Price for the two |

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| e r Eng | glish manufac | ture | | ••••• | ••••• | • • • • • • • | ••••• | |
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| | Bent Chlori | | | | | | | |
| | Bent Conne | | | | | | | |
| 4 | Suction Tul | es each | , caca | | •••••• | | | 10 |
| 5. Gas | j Suction Tul bottle, with | iet, for Phil | losonical | candle. | with | rlass tul | e. for exhib | it- |
| ing | the sound pi | oduced by | the flam | e | | | | . 40 |
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| | d ditto | | | •••••• | ••••,••• | ••••• | | 1 70 |
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| 10. 100 | e, and worm | tube | ganon, v | | пс, ап | u DIOCK | an serpenu | 4 00 |
| 19 Che | emical balance | s with weight | rhts in π | nahagar | w how | See 9 | lso pare 74 | 1 00 |
| | ni porcelain n | | | | | | noo page 11 | |
| | rmometer for | | | | | ** | | |
| oo Ch | migal Labels | 5 00 agah 1 | No 1 en | ooll 10 | | o. 2, lar | ge 35 cts. | |
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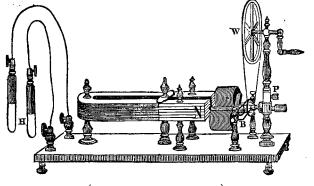
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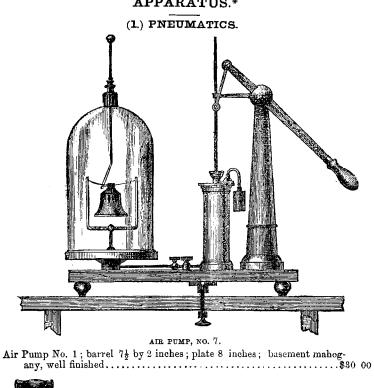
XXIV. NATURAL PHILOSOPHY.

1. DIAGRAMS.

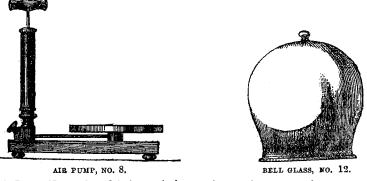
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| Ft.)/n losophy, Sheet No. 1, Properties of Bodies, 37 Diagrams. | |
| No. 2. Mechanical Powers, 47 Diagrams. No. 3. Hydrosta- | |
| tics, 28 Diagrams. No. 4. Hydraulics, 35 Diagrams. No. 5. | |
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| trations are carefully drawn and colored after Nature, and | |
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| charts, relating to various branches of Natural Philosophy, with key15 | 50 |
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| MODELS. | |
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3. EDWARD S. RITCHIE'S MODELS AND APPARATUS.*



[•] The illustrations of these apparatus etc., were kindly furnished by the Manufacturer, Mr / E. S. Ritchie, Boston, U. S. F



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Hemispherical Cups; with stop cock, handles, and stand; 5 inch diameter Hemispherical Cups ; with stop cock, handles of cast brass, and stand; 21 in



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Apparatus illustrating the weight and buoyancy of air, gas, &c., 3 inch glass globe, stop cock, stand steel beam, with grain and ounce weights, scale pans, and counterpoise, to use in open air and under bell glass, and with compressed air or exhausted. [The scales and

2. ELECTRICITY. (See page 55.)

Electrical Machine; plate 30 inches; prime conductor 36 by 5 inches, with double and separable sets of points, draw tube and ball; negative conductor 5 inches, basement $5\frac{1}{2}$ feet by 3 feet, of mahogany, shaft 44 inches from floor, insulated crank; in every respect well finished No. 6.\$105 00

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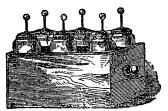
tive 4 inches, rubbers $6\frac{1}{2}$ by $1\frac{1}{2}$ inches; base like the foregoing No. 8.\$30 00.

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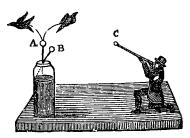
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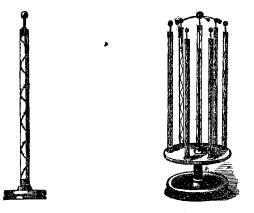


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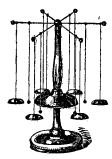
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NOTE.—The Spots are on the *inside* of the tube. The tube may be excited with a silk handkerchief.



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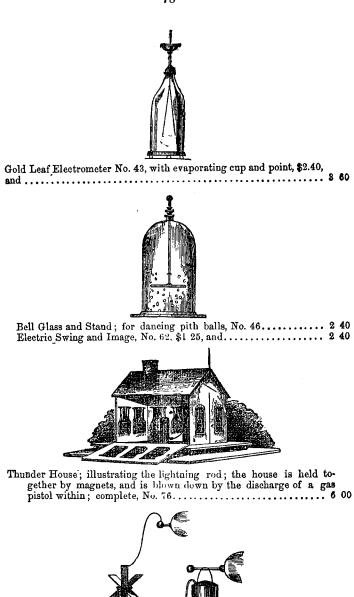
Set of Five Bells; on insulated stand handsomely mounted, No. 33.\$8 40



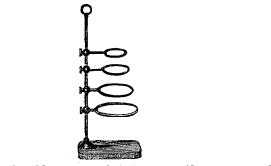
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| Levden Jar: with bells and stand, No. 35 | 6 00 |
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| Dancing Image Plates; on insulating and adjusting stand No. 38 | 7 25 |
| Stand for Illuminating Eggs No. 89 | 1 80 |
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77



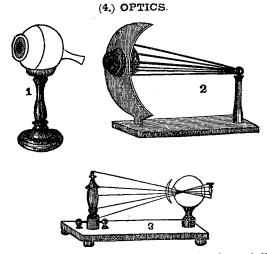
(3.) CHEMISTRY. (See page 67.) Electric Float; wheel and point, No. 78, \$1 25 and...... 1 80

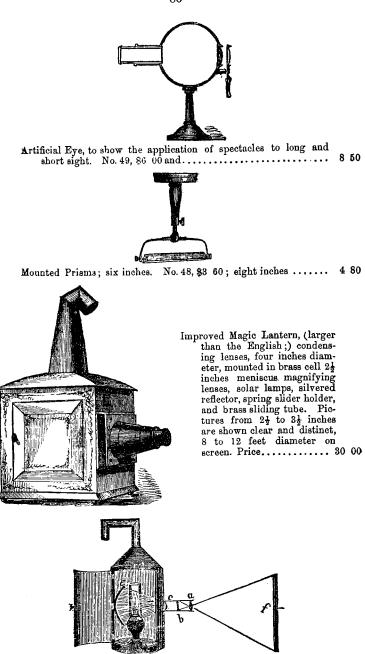


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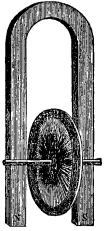
(5.) STEAM.

(6.) MAGNETISM.

(See page 72, Holbrook's Apparatus also.)

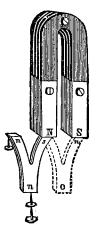


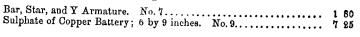
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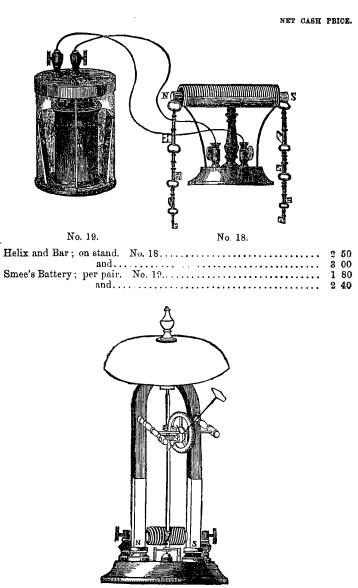
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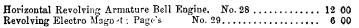


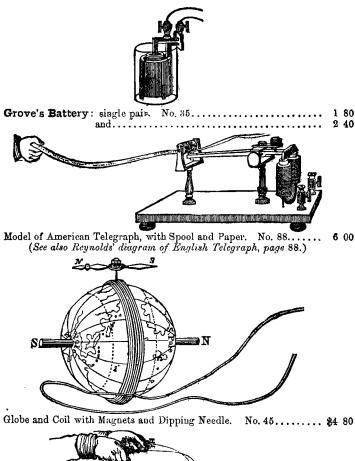


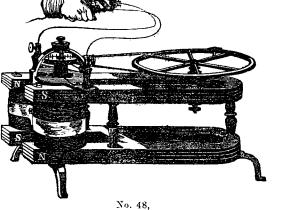
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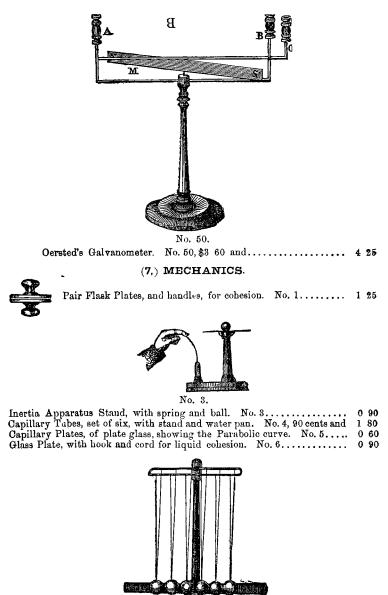


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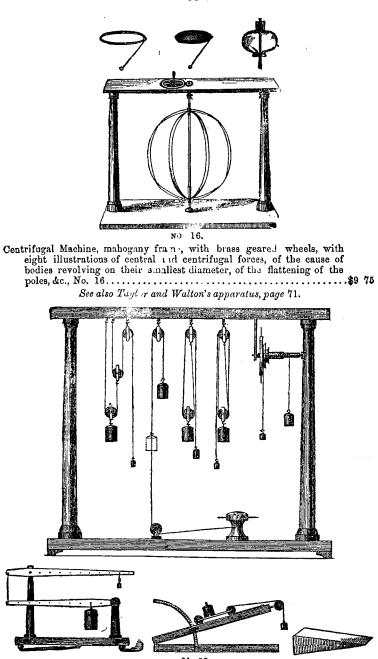






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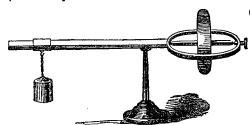
85



86

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(See also Taylor and Walton's, and Johnston's Mechanical Powers, at pages 71, 72)



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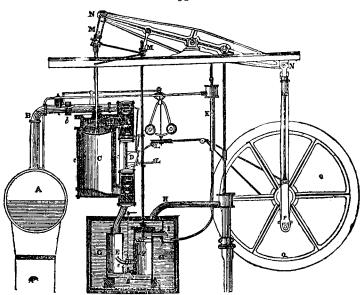
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(For Minerals for Blowpipes. See pages 32, 33.)

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| Iron furnace | do | do | do | 40 | |



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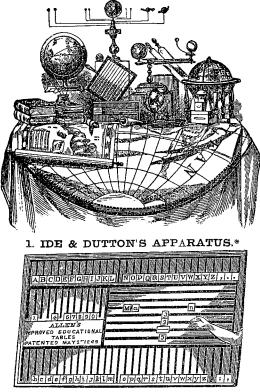
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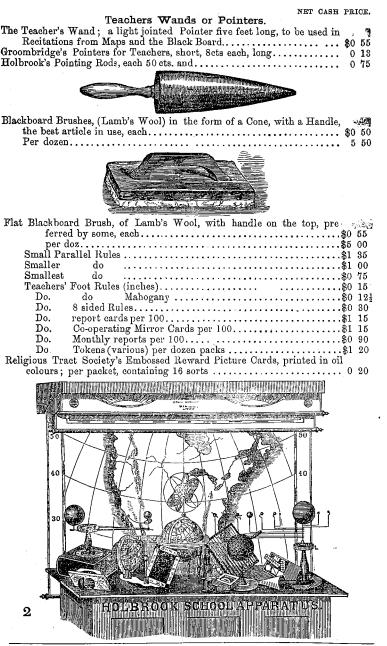


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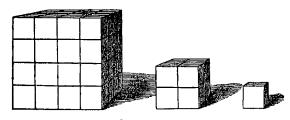
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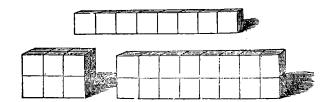
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| page 21 |
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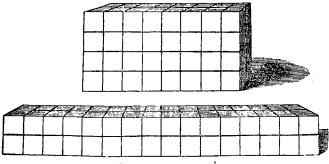
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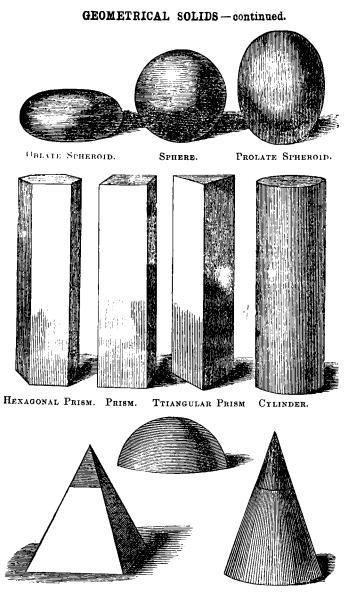
CUBES.





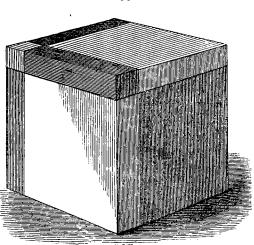


PARALLELOPHPEDS. *

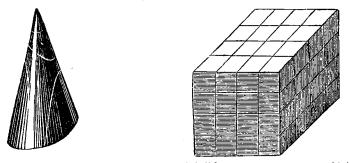


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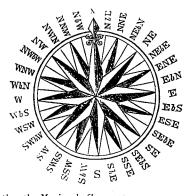
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- and refuse it not.
- 9. "Seek ye first the kingdom of God and his righteousness;"--Provide things honest in the sight of all men. 10. "The wise man saith," The life of truth shall be established for ever : but a
- lying tongue is but for a moment. 11. "In every thing give thanks;"—Swear not at all. 12. "The conclusion of the whole matter;"—Fear God and keep his command-

Mottoes :

ments.

XXVII. VOCAL MUSIC.

Wilhelm's Method of Teaching Singing, adapted to English use, by John Hullah.

| Hullah's Manual of Vocal Music, in two parts, paper | Ş 1 | 00 |
|--|------------|------------|
| do. do do Parts I and II, bound together | 1 | 00 |
| Exercises and figures contained in the Manual, Parts I and II, each | 0 | 16 |
| Large Sheets, containing the figures in the Manual, in parcels as follows; | | |
| Nos. 1 to 8, 9 to 16, 17 to 24, 25 to 32, 33 to 40 in five parcels. | | |
| Price each | 1 | 50 |
| Large Sheets containing the figures in Part II of the Manual, Nos. 41 to 52 | | |
| in one parcel | - | 25 |
| Do do stretched on frames and varnished, per doz | | 00 |
| Portfolios for Hullah's large sheets | 7 | 00 |
| Hullah's Grammar of Vocal Music | 2 | 00 |
| Do do Musical Harmony | 0 | 75 |
| Do do Exercises to do | | 25 |
| Do Exercises for Cultivation of Voice Contralto or bass | - | 63 |
| Do do do of Soprano or tenor | 0 | 63 |
| Illustrations to Hullah's Vocal Grammar, per set of 30 sheets | 10 | 50 |
| Music Copy Books, each | 0 | 25 |
| Music Paper, same size as Hullah's large sheets, 12 staves, per parcel of | | |
| sheets | 1 | 0 0 |
| Do do do do 8 staves per parcel of sheets | _ | 00 |
| Standard Tuning Forks, adjusted to 512 vibrations per second | 0 | 63 |
| God Save the Queen, arranged by Hullah, in three four and five parts, on both sides of a Card, each | | |
| both sides of a Card, each | 0 | 03 |
| Do do do per dozen | 0 | 25 |
| School Songs for two and three voices. Composed by Hullah. In two | | |
| Books, pp. 16, each | 0 | 18 |
| Contents of Book the First. | | |

| 1. Buttercups and Daisies. | 5. The Week. | 9. The Little Lark. |
|----------------------------|------------------------|---------------------|
| 2. The Months. | 6. A Pleasant Day. | 10. Birds. |
| 3. The Savoyard's Song. | 7. The Cricket. | 11. The Milk Pail. |
| 4. Lady Bird. | 8. The Spring Journey. | 12. The Seasons. |

| | NET UASH PRICE. |
|--|--|
| The Sunbeam. Harvest Field and Flowers. | Contents of Book the Second. 17. Sing for the Oak Tree. 22. The Farm Yard. 18. The Poor Laborer. 23. The Apple Tree. 19. The First Swallow. 24. The Shepherd Boys |
| 15. Poor obin. | |
| 16. The Little Sister. | 21. The Plough Boy. |
| | |

_____ XXVIII. WRITING.

_

| Mulhauser's Manual of Writing, with 40 model Plates | | 50 |
|--|---|----------|
| Writing Model, First or Elementary set, 40 Plates mounted on card board Do Second set: Medium, or half text hand, and the Cyphers | | 50 20 |
| Do Third set; fine, or small hand, and for Punctuation, Proverbs, and | 0 | 20 |
| Moral Science Do Fourth set; fine or small hand, and the ciphers. List of the | - | |
| Sovereigns of England since the Conquest Writing Books, ruled for Mulhauser's System, Nos. I, II, and III. No. I ruled with diagonal lines throughout; No. II, the same ruing, alter- nated with leaves of cross lines only; No. III, ruled for half text, per | 0 | 20 |
| dozen | - | 60 |
| Do each | - | 6 |
| Slates ruled for the Method National Copy Lines, per set of six assorted sheets | - | 16 38 |
| Fulton & Eastman's Principles of Penmanship, as follows: I. Fulton's Cherographics, in two numbers; 3 feet 6 inches wide, by 4 feet 4 inches long, mounted on canvass and rollers, and varnished, per pair. CHART No. 1.—Embraces Primary Exercises, and Elementary Principles in Writing, with illustrations of the correct and incorrect positions of the Scholar, &c. &c. | 3 | 50 |
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The peculiarity in Gould's Writing Book is in the placing of the copy lines inside the cover folded down. In writing, the lines can be exposed, so as to use them on any or every one of the pages of the copy book-an admirable plan.

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 Per dozen
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 No. 24, per dozen..... 2 75 No. 25 ditto

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| Gillott's St Pen-holder | eel School 's Lead pe | Pens, per box, (various prices.) Some at 0 50 ncils, Slate Pencils and Slates, (various prices.) |
|----------------------------|--------------------------|---|
| Holbrook's | Double S | lates, No. 1, 45 cts., No. 2 0 56 |
| Beeves' Fla | vible Slate | s, (See also page 104.) No. 1, 12 cts. each, per doz. 1 20 |
| Ditto | do | No. 2, 14 cts. each, per doz. 1 50 |
| | | No. 3, 17 cts. each, per doz. 1 80 |
| Ditto | do | |
| Ditto | do | No. 4, 20 cts. each, per doz. 2 25 |
| Ditto | do | No. 5, 27 cts. each, per doz 3 00 |
| Reeves' Bot | ttle India I | Rubber per lb 1 50 |
| Groombrid | ge's Ink w | ells, lead, per dozen 1 00 |
| Ditto | do | pewter, with patent cap 2 00 |

XXIX. DRAWING BOOKS, MATERIALS AND MODELS.

1. DRAWING BOOKS.

NET CASH PRICE.

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2. Drawing from Nature-material and method.

3. Perspective-Composition-Landscape-Figures, &c.

4. Drawing, as applicable to the Mechanic Arts.

5. Painting in Oil and Water Colours.
 6. The Principles of Light and Shade.

7. External Anatomy of the Human Form, and Comparative Anatomy.

The various methods of Etching, Engraving, Modelling, &

| 8. The various methods of Etching, Engraving, Modelling, ac. | |
|---|----------|
| Drawing Book, No. I, Elementary. Quarto. Atlas form. pp. 56 | 0 50 |
| Do do No. II, do do do pp. 56 | 0 50 |
| Do do No. III, Perspective. do do do pp. 56 | 0 50 |
| Drawing Copy Book No. I Primary and Elementary. Small quarto, pp. | |
| 20 singly | 0 13 |
| Do per dozeu | $1 \ 25$ |
| Do No. II, Primary and Elementary. Small pp 20, singly | 0 13 |
| Do per dozen | 1 25 |
| Do per dozen. Drawing for Young Children; containing 150 Drawing Copies, and nume- | |
| rous Exercises, accompanied with ample directions for both Teacher | |
| and Pupil Published under the superintendence of the Society for the | |
| Diffusion of useful Knowledge. Eng. and Am. Edi. cks. csfc. 12mo., | |
| bound in cloth | 0 50 |
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| 12mo. each. Eng. Edi. wtc | 0 10 |
| In these Books, the Drawing copies are lithographed. | 0 10 |
| Williams' Instructions in Drawing, for the use of Elementary Schools, | |
| with numerous illustrative Wood Cuts, and Outline Figures, of Models | |
| sanctioned by Privy Coun. Com. on Education. Eng. Edi., jwp. 8vo. | |
| | 0 00 |
| pp. 116. | 0 60 |
| Richardson's Firs Steps in Art; or Practical and Easy Graduations n | |
| Landscape Drawing, divided into Three Series. Eng Edi. tv. Per set. | J 80 |
| FIRST SERIES Expressive Outline. By J. V. Richardson, Professor of | |
| Drawing, Oxford. 24 Plates. | |

SECOND SEGIES .- Expressive Outline, slightly shaded, 24 Plates. THIRD SUBJES .- Select Studies, with progressive effect, 24 Plates.

2. EXAMPLES OF CUTLINE DRAWING, AS FOLLOWS :

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by 21. Ing. Edi. tv. Per set of 9, in sheets 1 50 stitched on frames and varnished...... 3 50 Raffaelle's do Raffaelle is unrivalled in the extraordinary energy and action of his figures .--They seem instinct with life. Hence his outlines have ever been regarded as master-pieces of study for the Student in drawing.

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 - 3. The Deluge.
 - 4. Finding of Moses.
 - 5. God appearing to Moses.
- 6. The Passage through the Red Sea.
- 7. Moses striking the Rock.
- 8. The Molten Calf
- 9. Delivery of the Law.
- (See also pages 61, 66.)

| (The following are Authorised by the English Department of , | Science and . | Ari | t.) |
|--|---------------------------|-----|-----|
| Familiar Objects, or white Outline Drawings, on brown groun | id, 2 sheas, | 0 | 7 |
| Ditto ditto Mounted on two cards | ••••• | 0 | 20 |
| Bishop of St. Asaph's Outlines of Familiar Objects, being bla on white ground (in paper cover) | ick Outlines | 3 | 16 |
| Ditto ditto Mounted | | (| 65 |
| Taylor and Walton's Linear Drawing Copies, comprising upw subjects on 24 sheets, mounted on thick pasteboard, in a po | vards of 200 ortfolio | 1 | 25 |
| Simpson's Elementary Free Hand Drawing Copies, Flat E. figures on 12 sheets, and one containing Letter Press, m | xamples, 34 nounted on | | |
| canvas, without rollers, per set | | 2 | 00 |
| Robinson's Manual of Elementary Outline Drawing, to be use | ed with the | | • • |
| Flat + xamples, each, 18 cts., per dozen | • • • • • • • • • • • | 2 | 10 |

3. EXAMPLES OF COLOUR DRAWING.

(The following are Authorised by the English Department of Science and Art.)

| Mabrun's French Lithographed Drawings of Machinery, shaded. (See page 88,) each | 4 5 | 0 |
|---|----------|---|
| Simpson's Diagram of Color, shewing the relative surface proportion in which the primary, secondary and tertiary hues harmonise with each other. 3 diagrams on one sheet, mounted on canvas, without rollers. | 10 | 5 |
| Large size | 1 5 | 0 |
| Small Ditto ditto | 0 5 | 0 |
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| richly tinted, 12 sheets, in a paper cover, with Letter ress | $2 \ 0$ | 0 |
| W. H's Alphabet of Color. Crown 4to.stretcher | 0 7 | 8 |
| Redgrave's Manual of Color, with a Catechism, each 20 cts., per dozen | 2^{-3} | 0 |
| Brookes' Illustrations of Exercises in Elementary Design for decorating surfaces. Given Forms arranged so as to fill given Geometrical Spaces, | | |
| Lithographed by female class of the Department, in two sheets | 0 30 | 0 |

| Sower & B | arnes' | Chalk Dra | wings, a S | Series of | white outlines | s on black | |
|-----------|---------|-----------|------------|-----------|----------------|------------|------|
| ground. | 8 Plate | | | | | | 1 00 |

4. MISCELLANEOUS DRAWING.

| French Models in Plaster of Paris, of the hands and feet. Life Size. | |
|--|---------|
| Beautiful models for drawing from nature, assorted, each | 0 40 |
| Julien's Studies ; various positions of the hands and feet, rs. each, mounted | 0 55 |
| Ditto Studies of Heads, various prices. | |
| Ditto The Human Figure, ditto. | |
| Carl Kopper's Drawing Book of Flowers, in paper cases. Eng. Edi. wtc | $0\ 25$ |
| Bolton's Drawing from Objects. 8vo. Eng. Edi. as pp. 130 | 1 50 |
| Dibdin's Practical Drawing Book, 24 plates. Plain oblong; 4to Do Progressive do 24 in outline and colours. 48 Plates, | 1 00 |
| Do Progressive do 24 in outline and colours. 48 Plates, | |
| oblong, 4to | 2 25 |
| Robinson's Little Artist's Drawing Book | 0 20 |
| Tegg's New Juvenile Drawing Book. Per set of 6 | 0 60 |
| Tegg's Elementary Drawing Book of Landscape, heads, hands, feet, etc. | 1 10 |
| Chambers' Drawing Books :- Consisting of a Series of Progressive Lessons | |
| in Drawing and Perspective, with General Instructions, in Eighteen | |
| Books. Oblong 8vo. Per set. | 6 00 |
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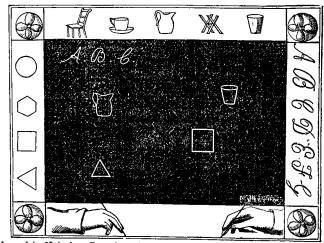
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0 38

Chambers' Practical Diagrams and Working Drawings for Schools. Edited by Robert Scott Burn, viz:

| 1. The Styles of Gothic Architecture ; comprising Examples of Windows, Buttresses. Crosses, Perforated Parapets, &c., in Norman, Decorated, | 25 |
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| | 25 |
| Geometrical. Curvilineal, Elizabethan, and other styles | |
| 2. The Orders of Roman Architecture ; comprising Examples of Tuscan, | |
| Doric, Ionic, Corinthian, and Composite Columns. The heights and | |
| projections of each member carefully marked. Examples of Pedestals | |
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| The dimensions of each part carefully calculated and drawn to scale. | |
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| Size of each Sheet. 25 by 20 inches, with descriptive reference. On a | |
| sheet, 25 cts., mounted Ø | 50 |
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| ing and Decorative Designs. In sheets, each 0 | 06 |
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| press. Example No. I. Horizontal Highpressure Engine | 25 |
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| Letter-press. The subjects illustrated are-Couplings for Shafts, | |
| Brackets, Driving Pulleys, Toothed Gearing, Wheel and Pinion, Racks, | |
| Crank, Connectingrods, &c., &c., in Plan, Elevation and Section, drawn | |
| to seale | 25 |
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Holbrook's Noiseless Drawing Slates, with Drawing and Writing Copies on the Frame, and the corners defended with a little Cushion of Plush, so as not to make a noise in moving. Two sizes. No. 1, 5 × 7 inches. Per dozen Do do do Singly

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| Do do do Singly | 0.50 |
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| plans, drawings, or maps in any required proportion (Nos. 860 to 865.) 6 inches long | 2 10 | |
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| 10 " | 3 25 | |
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| | 4 80 | |
| 10 | 5 25 | ' |
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| Department of Science and Art Mathematical Instruments. | | |
| Cronmire's Case of Mathematical Instruments, containing 12 inch Rule, set | 50 | |
| Square, pair of 6 inch compasses, pen and pencil legs do containing pair of 6 inch compasses, pen and pencil legs, bow pen | 75 | |
| and pencil, ruling pen and scale 1 | 75 | |
| Kentish's Treatise on a box of Instruments, and the side Rule for the use of | | |
| students, engineers, &c. by Thos. Kentish, Am. Edi hcb. Price (|) 80 | |
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| Instruments, (No. 874,) consisting of one pair of 5-inch, sector- | | |
| jointed, steel-pointed compasses, with fine points ; one pair of 6 inch sector-jointed, steel-pointed compasses, with hair points and move- | | |
| able leg, with pen and pencil holder to fit; bow pencil holder; bow | | |
| pen with double joint and epring: ruling pen in ebouy handle: | | |
| turnscrew; pencil; ebony parallel rule, with brass fittings; an ivory | | |
| protractor, divided to degrees, having on it ten scales of equal parts, | | |
| a diagonal scale, a line of chords, and sector, 6 in. long, fully | e 6 0 | |
| divided; in mahogany case \$12 Ditto: A set of Drawing Instruments, (No. 875,) consisting of a pair of | | |
| 34-inch, steel-pointed, brass-jointed compasses, with one moveable | | |
| leg : jointed pen and pencil-holder to match; a pair of $4\frac{1}{2}$ -inch, steel- | | |
| pointed, brass-jointed compasses; one pair of 64-inch, brass-jointed, | | |
| steel-pointed compasses, with moveable leg and jointed pen and | | |
| pencil-holders ; horn protractor; lengthening bar; turnserew; ruling pen, with ebony handle and protracting point; and one divided | | |
| boxwood rule; the whole enclosed in a neat mahogany case 4 | 25 | |
| Ditto: A set of Drawing Instruments, (No. 876,) consisting of one pair | | |
| of 4-inch, brass-jointed, steel-pointed compasses; one pair of 5-inch, | | |
| brass jointed, steel-pointed compasses, with moveable lcg; horn pro- | | |
| tractor; jointed pen and pencil-holders; lengthening bar; ruling | | |
| pen, with ebony handle and protracting point; turnscrew, crayon- | 00 | |
| | 00 | |
| Ditto: A set of Drawing Instruments, (No. 877,) consisting of a pair of steel-pointed, 6 inch, brass jointed compasses, with one moveable leg; | | |
| H | | |
| - | | |

jointed pen and pensil-holder, lengthening bar, erayon-holder, horn protractor, turuserew, and divided boxwood scale; in a neat pocket

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| sisting of a pair of 51 inch. steel-pointed, brass jointed compasses, | | | |
| with one moveable leg; jointed pen and pencil point, evayon holder, | | | |
| turnserew, horn protector, and divided boxwood scale : in a neat pocket | | | |
| 6ase, | 2 | õC | 1 |

See pages 43, 53 and 72. See also pages 92-96, for Geometrical Illustrations.

7. DRAWING PAPER AND PENCILS.

| Reava | o' Drawing | Paper, | best de | any, hot pressed, wh | lite, per doz | en sheets | 0 | 30 |
|---------|-------------|----------|-----------|----------------------|---------------|-----------------|----------|----|
| Do | | do no | | • • | i do | | 0 | 50 |
| Do | do | do | | | do | | 0 | 90 |
| Do | Harding's | Imperia | al, per e | lozen | | . <i></i> | 1 | 20 |
| Perks | z's Coloure | d Draw | ing Pa | er, the best, per do | on sheets- | dark | 0 | 25 |
| D_{0} | | | | second quality, do | | | 0 | 20 |
| Reeve | s' Graduat | ed Tinte | ed Drav | ving Paper, square. | Per dozen | shects | 0 | 90 |
| Do | Amperial 4 | to. Se | rape th | its paper | do | do | 0 | 63 |
| D_0 | ้ ฝอ | | do | paper boards | do | do | 0 | 70 |
| Do | Turnball's | Royal. | 2 sheet | Bristol boards | | ••••••• | 1 | 75 |
| Do | do | do | 3 do | mounting boards | | | 1 | 50 |
| Do | də | do | 3 do | erayon boards | | • - • • • • • • | 2 | 75 |
| Drawi | ng Penci | ls, etc. | | | | | | |
| Reer | ves' Juveni | ile or E | lementa | ry Drawing Peneils | , in a paper | case. Per | | |
| ca. | Se | | | | | | 0 | 13 |
| D_{0} | Prepared I | hawing | Pencil | s, per dozen | | | 0 | 63 |
| - | | | | | | | | |

(See also India Rubber, do. Page 101.)

8. DRAWING MODELS.

| with a circle and cross within it, and one strait wire; one solid cube; one wire cube; one solid sphere; one solid cone; one solid cylinder; and one solid hexagonal prism. Per set | |
|--|---|
| and one solid hexagonal prism. Per set | |
| Department, ditto ditto from Stand with universal joint, to show the wire and solid models | |
| wire and solid models | 0 |
| Chapman & Hall's Folding Drawing Models, as follows: one cube and | 0 |
| | |
| lodge, cottage, steps and bridge 4 0 | |
| | 0 |
| Taylor & Walton's Drawing Models for beginners, with a treatise on per- | |
| spective drawing in a box 14 0 | 0 |
| Parker's Drawing Models for Parochial Schools 6 5 | 0 |
| Do do lst series | 0 |
| Do do do 2nd series wire 13 0 | 0 |

XXX. MISCELLANEOUS.

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|-----------|--------------|---|---|-----------|
| pp. 144 | ••••• | ······································ |) | 25 |
| Grammar | School Act | s Manual, with do do 12mo.pp. 115 (|) | 25 |
| Journal c | f Elacation, | for Upper Canada, back Vols. stitched, each 1 | 1 | <u>60</u> |
| Ditte | o do | yearly | L | 00 |

| NET CASH | | |
|---|-------------|----|
| Annual School Reports for Upper Canada, or other official Reports not enumerated, so far as they can be supplied. Single copy | \$ ປ | 50 |
| Report on a System of Public Elementary Instruction for Upper Canada. | Û | 51 |
| Ceremony of Laying the Corner Stone of the Normal School and Educa- tion Offices, Toronto, with an Introductory Sketch of the System of Public Elementary Instruction in Upper Canada. Superior Paper and Engravings, 8vo. pp. 29 | | 25 |
| Plan of the Educational Department for Upper Canada: on a sheet, ex- hibiting the Front and Rear perspective views of the Normal and Model Schools and Education Offices, with Plans of the First and Second Stories of the Buildings. Four Engravings, with descriptive letter press. Single sheet. | | 68 |
| School Registers | | 25 |

ANATOMY AND PHYSIOLOGY,

(Omitted on pages 63, 64.)

| Marshall's | Physiological Diagrams : Produced under the direction | |
|------------|--|-----|
| of John I | larshall, F. R. C. S., for the Department of Science and Art, | |
| London. | Size, 3 feet 8 inches, br 9 feet. Price, per set of nine. \$35 | 5 (|

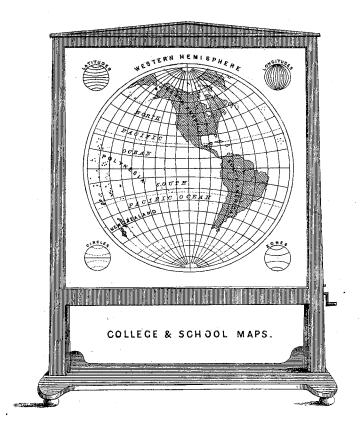
London. Size, 3 teet 8 inches, by 9 feet. Price, per set of nine.....\$35 00 The nine plates illustrate the following subjects: 1. The skeleton and ligaments. 2. The muscles, joints, and animal mechanics. 3. The viscera in position. The structure of the lungs. 4. Heart and blood vessels. 5. 1 ymphatics and absorbents. 6. Digestive organs. 7. Brain and nerves. 8. Organs of the senses. 9. The textures—microscopic structure.

These beautifully colored diagrams are on a single sheet, each of them having been printed at one operation. Zinc plates and paper had to be expressly made for the purpose, and a Leviathan press designed, experimented upon, and perfected, to permit so large a sheet to be printed in colors, otherwise such a diagram must have been printed in six parts and then joined tegether. Printed by Day & Sons, Lithographers to the Queen.

ERRATUM.

Page 59, for "inveterate" read "invertebrate."





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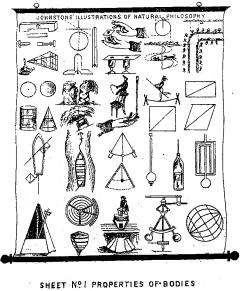
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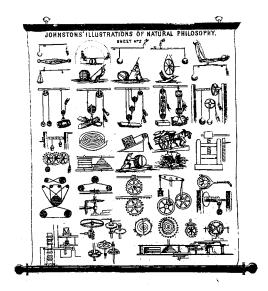
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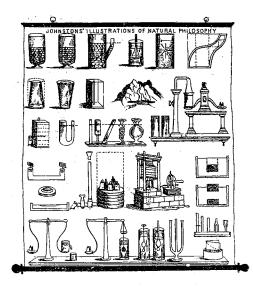
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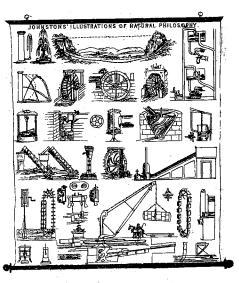


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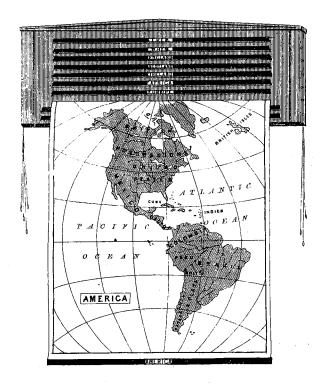
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