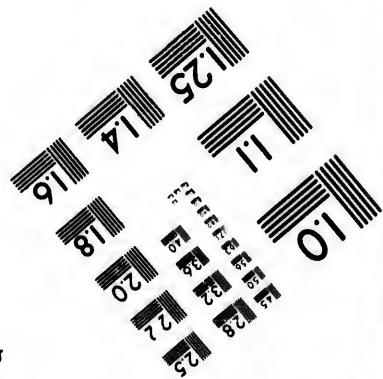
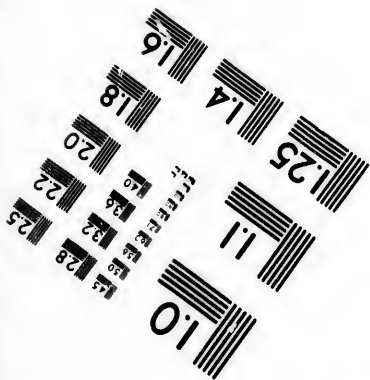
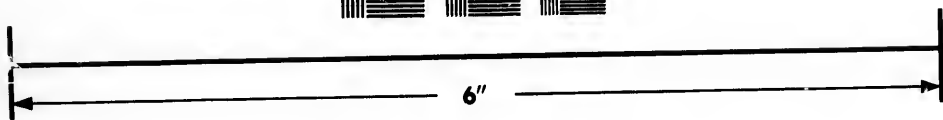
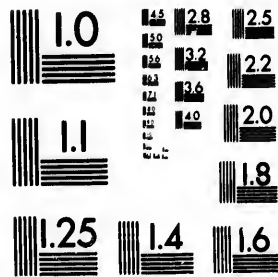


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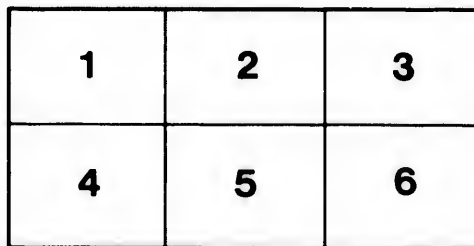
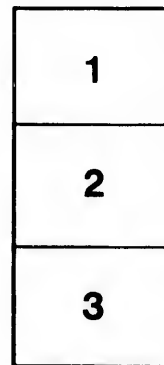
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IN UPPER CANADA.



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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, &c. 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 are, *bonâ 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 [*Reeve, 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 legal value. Text-books cannot be furnished on the terms mentioned above. They must be paid 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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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.

	SIZE OF MAP.	NET CASH PRICE.
Map of the World on a Globular Projection	6 : 8 by 3 : 6	\$ cts. 3 50
" Europe	5 : 8 by 4 : 4	.... 3 00
" Asia	ditto	.... 3 00
" Africa	ditto	.... 3 00
" America	ditto	.... 3 00
" British America, including Upper and Lower Canada, etc. (b)	ditto	.... 3 00
" United States	ditto	.... 3 00
" Pacific Ocean	ditto	.... 3 00
" Australia	ditto	.... 3 00
" England	ditto	.... 3 00
" Ireland	ditto	.... 3 00
" Scotland	ditto	.... 3 00
" British Isles (c)	7 : 0 by 8 : 0	.... 5 00
" Geological Map, British Isles. (See page 18.)	5 : 8 by 4 : 4	.... 3 50

(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 greatly 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.

		NET CASH
	SIZE OF MAP.	PRICE.
		\$ cts.
Map Orbis Veteribus Notus (<i>d</i>)	5 : 8 by 4 : 4	3 00
" Italia Antiqua, with Plan of Rome	ditto	3 00
" Græcia Antiqua, with Plan of Athens	ditto	3 00
" Asia Minor, or Antiqua	4 : 4 by 2 : 10	1 75
" Terra Sancta, combining the Geography of the Old and New Testaments	ditto	1 75
" Palestine, comprising Canaan, Land of Promise, the Holy Land, and Plan of Jerusalem.		
4 maps in one.....	4 : 4 by 5 : 8	3 00
" Ancient, or Scripture World.....	ditto	3 00
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 above ten Maps in a wooden case†.....		24 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 above 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 Ptolemy, 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 PRICE.		SIZE OF MAP.	NET CASH PRICE.
\$ cts.			\$ cts.
3 00	Map of British America, including Upper and Lower Canada (<i>f</i>)	4 : 2 by 3 : 6	2 38
3 00	“ Central Europe	ditto	2 38
1 75	“ France	ditto	2 38
	“ Italy	ditto	2 38
1 75	“ India	ditto	2 38
	“ Spain and Portugal	ditto	2 38
3 00	“ The World (Mercator's)	ditto	2 38
3 00	“ The World (Mercator's)	2 : 9 by 2 : 3	1 38
29.	“ United States and Canada	ditto	1 38
	Physical Chart of the World (<i>g</i>). (See pages 29—31)	4 : 2 by 3 : 6	2 38
	Commercial Chart of the World, on Mercator's Projection	6 : 0 by 4 : 8	12 00
	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.)

2 38	Map Orbis Veteribus Notus	4 : 2 by 3 : 6	2 38
2 38	“ Græcia Antiqua	ditto	2 38
2 38	“ Italia Antiqua	ditto	2 38
2 38	“ Asia Minor Antiqua	ditto	2 38
2 38	“ Canaan and Palestine	ditto	2 38
2 38	“ Canaan and Palestine	2 : 9 by 2 : 3	1 38

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

24 00	Map of the World*	5 : 2 by 4 : 5	3 50
	“ Europe	ditto	3 00
	“ Asia	ditto	3 00
	“ Africa	ditto	2 00
1 38	“ North America	ditto	3 00
1 38	“ South America	ditto	3 00
1 38	“ England	ditto	3 00
1 38	“ Ireland	ditto	3 00
1 38	“ Scotland	ditto	3 00
1 38	“ 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.

IV. LONDON CHRISTIAN KNOWLEDGE SOCIETY'S MAPS.

1. MODERN GEOGRAPHY.

Canvas, Rollers, Colored and Varnished.

	SIZE OF MAP.	NET CASH PRICE.
		\$ cts.
Map of the World.....	6 : 6 by 3 : 4	3 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 Varnished.

Map of Europe	5 : 3 by 4 : 4	3 00
“ Asia.....	ditto	3 00
“ Australia	ditto	3 00
“ Africa	ditto	3 00
“ North America	3 : 2 by 3 : 10	2 00
“ South America	ditto	2 00
“ England and Wales	5 : 0 by 6 : 3	3 50
“ England and Wales.....	2 : 9 by 3 : 10	1 50
“ Ireland	ditto	1 50
“ Scotland	ditto	1 50

2. ANCIENT AND SCRIPTURE GEOGRAPHY.

Cloth, Rollers, Colored and Varnished.

Six Historical Maps—1, the Assyrian—2, the Persian—3, the Macedonian—4, the Roman—5, the Christian—and 6, the Mahometan Empires, (i)	3 : 8 by 3 : 6	1 50
Old Testament Map of Syria	4 : 1 by 2 : 4	2 00
New Testament “ Syria	ditto	2 00
Map of the Land of Promise, illustrating the Patriarchal Ages, and the periods previous to the Conquest under Joshua	1 : 10 by 2 : 3	0 88
Map illustrating the Journeys of the Children of Israel 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.....	1 : 10 by 2 : 3	88
Hughes' Map of Palestine (k).....	2 : 4½ by 3 : 7½	2 00
Map of the Holy Land in the time of Our Saviour, with Notes on its Physical Geography ..	1 : 10 by 2 : 3	88
Map illustrating St. Paul's Travels and Journeys ..	2 : 10 by 2 : 3	1 38
<i>Sheets.</i>		
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 scriptural divisions of Palestine, and illustrate its ancient and modern geography. 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.

SO-

V. VARTY'S MAPS. (l)

1. SCHOOL ROOM MAPS.

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...	“ “ (Globular).....	ditto	2 25
...	“ Europe	2 : 8 by 2 : 2	1 25
...	“ Asia	ditto	1 25
...	“ Africa	ditto	1 25
...	“ America	ditto	1 25
...	“ Australia and New Zealand.....	ditto	1 25
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...	“ Ireland	ditto	1 25
...	“ Scotland	ditto	1 25
...	“ British Isles	4 : 3 by 3 : 4	3 00

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...	“ World, Hemispheres, Full and Outline.....	ditto	3 25
...	“ Europe	2 : 9 by 4 : 2	2 00
...	“ Asia	ditto	2 00
...	“ Africa	ditto	2 00
...	“ America	ditto	2 00
...	“ England	ditto	2 00
...	“ Ireland	ditto	2 00
...	“ Scotland	ditto	2 00

(See also Scripture Geographical Maps, page 14.)

3. FULL MAPS. (n)

...	Map of the Roman Empire	2 : 8 by 2 : 2	1 50
...	“ India, or Hindostan, exhibiting the boundaries of each of the British Presidencies.	ditto	1 25
...	Political Map of the World, Globular.....	4 : 4 by 3 : 3	3 25

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(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.

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II. A large Physical Map of the World, Stereographic Projection:—

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(p) The Chart of the World is not limited to giving the pupil a general view of the World, but is so constructed that the general geography of Asia, Africa,

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North America and South America, may be taught from this map in the fullest detail given in any text book. The Map of Central and Southern Europe exhibits the special geography of France, Spain, Portugal, Switzerland, Italy, Belgium, Holland, Denmark, Prussia, Austria, Germany, Turkey and Greece, serving the purpose of separate maps.

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X. CLASSICAL AND SCRIPTURE MAPS.

National.....	(See List.)	Page 10.
Johnston's.....	(do.)	Page 11.
Christian Knowledge Society's.....	(do.)	Page 12.
Varty's.....	(do.)	Page 14.

See also Scripture Charts and Illustrations, pages 26—28.

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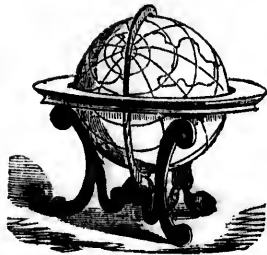
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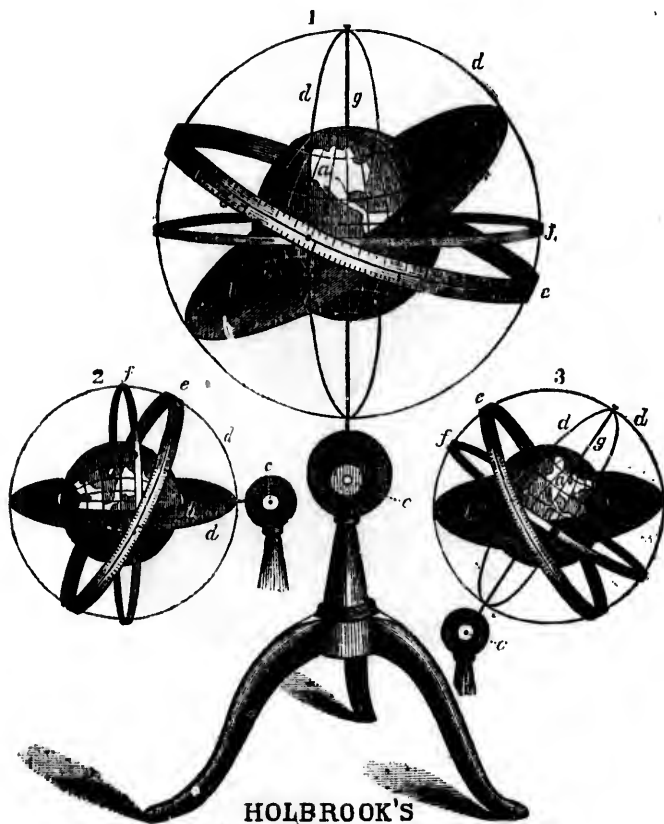
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See also Atlases page 23; and Johnston's and the National Classical Maps, pages 10 and 11.

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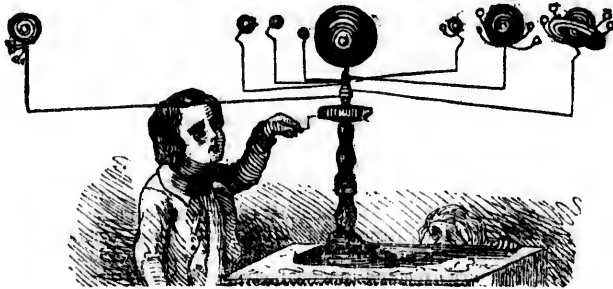
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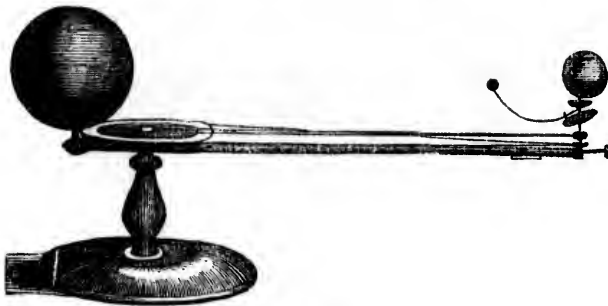
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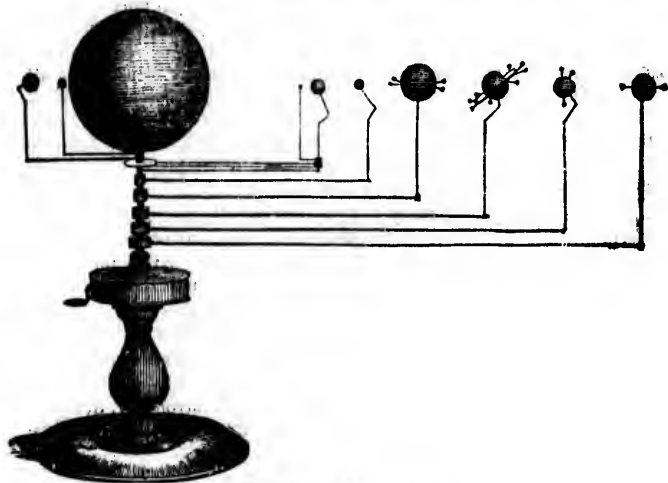
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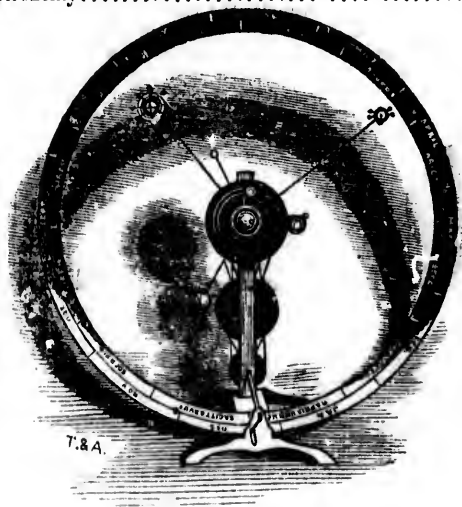
Brownell's Teachers' Guide to Illustration: A Manual to accompany Holbrook's School Apparatus. 12mo., cloth, Am. Edi., pp. 156..... 0 50

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| 3. Swain's New Planetarium for Common Schools..... | \$16.50 |
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the Planets, and all other Phenomena connected with the science
of Astronomy..... | 54 00 |



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3. ROBERT'S ILLUSTRATION OF THE MOVEMENTS OF THE HEAVENLY BODIES.

[Les mouvements des corps célestes, et les principaux phénomènes qui en résultent, démontrés à l'aide des appareils cosmographiques. De M. H. Robert, Paris.]

- Collection No. 1, three small models. See figures 2, 3 and 5..... 15 00
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- Collection No. 6, nine large models and 2 small, beautifully finished, as follows :..... 240 00

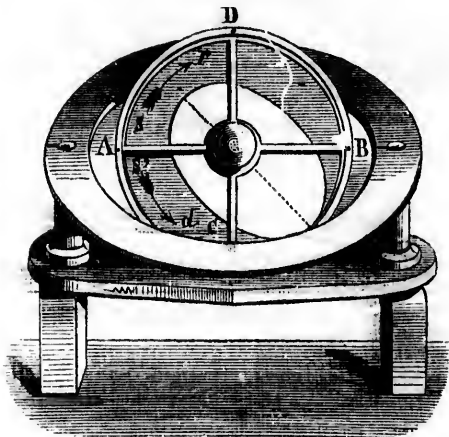


Fig. 1. Illustration of the change of Seasons.

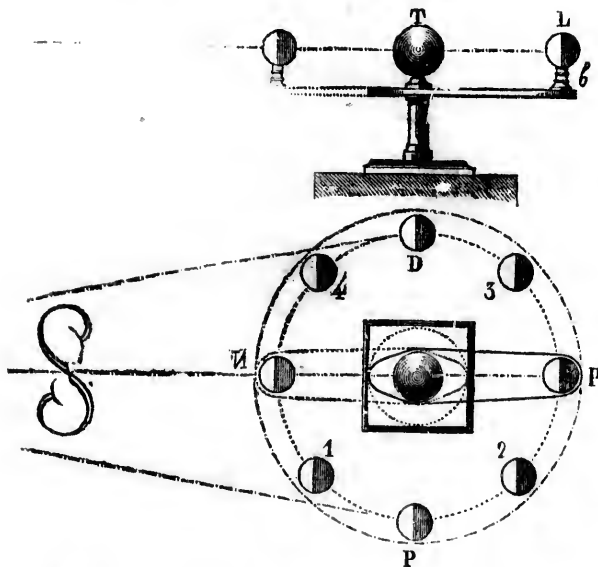


Fig. 2. Phases of the Moon—Figure, and section of figure.

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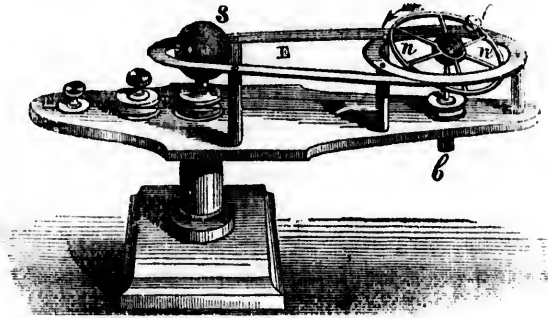


Fig. 3. Eclipses.

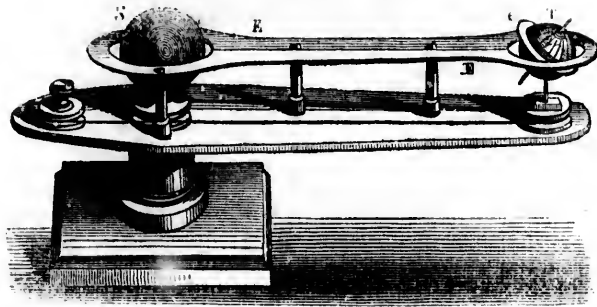


Fig. 4. Precession of the Equinoxes.

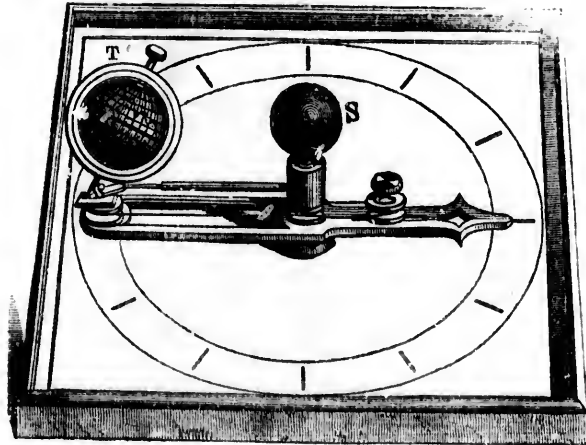


Fig. 5. Double movement of the Earth.

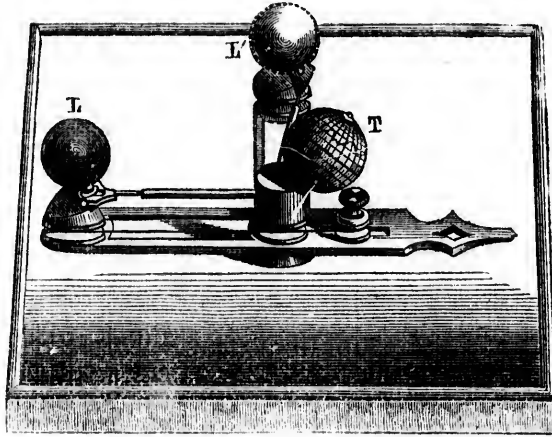


Fig. 6. Phases of the Moon.

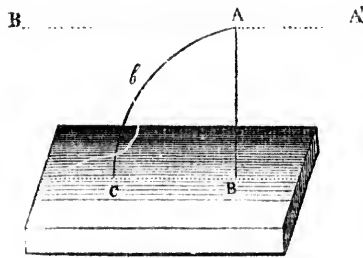


Fig. 7. a.

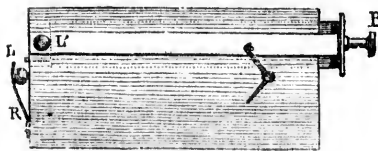


Fig. 7. b.

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

8 and 9. Illustrations of Gyrotory 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 under 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]:

First Book of Lessons,.....	3	cts. each,	25	cts. per doz.
Second ditto	13	" "	\$1	10 "
Sequel to Second Book,.....	13	" "	\$1	10 "
Third Book of Lessons,.....	20	" "	\$2	15 "
Fourth ditto	25	" "	\$2	40 "
Fifth ditto (Boys).....	25	" "	\$2	40 "
Sixth, or Reading Books for Girls' School,.....	25	" "	\$2	40 "
Introduction to the Art of Reading.....	20	" "	\$1	90 "
Spelling Book Superseded, by Professor Sullivan..	25	" "	\$2	40 "
English Grammar.....	13	" "	\$1	10 "
Key to ditto	3	" "	25	cts. "
Epitome of Geographical Knowledge,.....	35	" "	\$3	60 "
Compendium of ditto,.....	13	" "	\$1	10 "
Geography Generalized, by Professor	50	" "	\$4	50 "
Introduction to Geography and History, ditto. 16	" "	" "	\$1	80 "
First Arithmetic,.....	13	" "	\$1	10 "
Key to ditto.....	13	" "	\$1	10 "
Arithmetic, in Theory and Practice,.....	30	" "	\$2	70 "
Book-keeping,	14	" "	\$1	35 "
Key to ditto,.....	13	" "	\$1	10 "
Elements of Geometry.....	13	" "	\$1	10 "
Mensuration,.....	22	" "	\$1	90 "
Appendix to ditto,.....	14	" "	\$1	35 "
Sacred Poetry,.....	5	" "	35	cts. "
Lessons on the Truth of Christianity,	10	" "	\$1	00 "
Lennie's English Grammar,.....	34	" "	\$3	60 "
Morse's Geography, (Am. Ed.),.....	50	" "	\$4	80 "
Kirkham's English Grammar, (Am. Ed.),.....	38	" "	\$4	20 "
Set Tablet Lessons, Spelling and Reading.....	25	" "		
Ditto Arithmetic,.....	40	" "		
Ditto Copy Lines,.....	38	" "		

[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 Viet., ch. 186.

[NOTE.—The Grammar School Trustees can select such text books from the following list as they may approve; but in no case should more than one series of books be permitted to be used in each school.]

NET CASH PRICE.

1. LATIN.

	\$	cts. each,	\$	cts. per doz.
Arnold's First and Second Book,* Am. Edi., <i>dac.</i>	0	63	"	6 75
First Book, Eng. Edi., <i>riv.</i>	0	65	"	7 20
Key to ditto.....	0	23	"	2 40
Second Book, Eng. Edi., <i>riv.</i>	0	88	"	9 60
Key to ditto.....	0	45	"	4 80
Third Book, "Latin word Building," Eng. Edi., <i>riv.</i> ...	0	95	"	10 80
[Arnold's Verse Composition, 8vo., Eng. Edi., <i>riv.</i> ...]	1	20	"	13 20
Arnold's First Verse Book, Part I., 12mo Eng. Edi., <i>riv.</i>	0	45	"	4 80
Ditto, Part II. 12mo., Eng. Edi., <i>riv.</i> ...	0	25	"	2 40
Key to ditto].....	0	45	"	
Key to ditto.....	0	80	"	
Arnold's Prose Composition, 12mo., Am. Edi., <i>dac.</i> ...	0	87	"	9 50
Ditto, Part I., Eng. Edi., 8vo., <i>riv.</i>	1	40	"	15 60
Ditto, Part II., Eng. Edi., <i>riv.</i>	1	60	"	16 80
Keys to ditto, Part I. 40 cents. Part II.....	0	33	"	
Bullions' Adam's Grammar, Am. Edi., <i>fb.</i>	0	75	"	8 50
Edinburgh Academy Rudiments, <i>ob.</i>	0	45	"	4 75
Eton Grammar, <i>lc.</i> White's, Youge's, etc....	0	60	"	6 90
Kaltschmidt's Latin and English Dictionary, 12mo. (Chambers' Educational Course.) \$1.80 each, bound together; \$1.00 each, Latin part; 90 cts. each, English part.				
Antho'n's Latin and English Dictionary. 12mo. Am. Ed. <i>hb.</i>	1	65	"	17 25
[For Browne's Latin Grammar for Ladies, see other Classical Works, page 52.]				

2. GREEK.

Arnold's First Book,* Am. Edi., <i>dac.</i>	0	63	"	6 75
First Book Eng. Edi., <i>riv.</i>	1	10	"	12 00
Key to ditto.....	0	33	"	
Second Book Eng. Edi., <i>riv.</i>	1	20	"	13 20
Key to ditto.....	0	45	"	
Third Book Eng. Edi., <i>riv.</i>	0	75	"	8 40
Fourth Book, Eng. Edi.....	0	88	"	9 60
Arnold's First Prose Composition, Am. Edi., <i>dac.</i>	0	63	"	6 75
Ditto. First ditto, Eng. Edi. <i>riv.</i>	1	20	"	13 20
Key to ditto.....	0	80	"	
Ditto. Second Prose Composition, Am. Edi., <i>dac.</i> ...	0	63	"	6 75
Ditto. Second ditto, Eng. Edi.,.....	1	40	"	15 60
Key to ditto.....	0	75	"	
Ditto. Reading Book, Am. Edi., <i>dac.</i>	1	00	"	11 00
Bullions' Grammar, Am. Edi., <i>fb.</i>	0	90	"	10 25
Edinburgh Academy Rudiments, Eng. Edi., <i>ob.</i>	0	75	"	8 40
Eton Grammar, Homer's, Routledge's, etc.....	0	90	"	10 25
Antho'n's Prosody. Eng. Edi., 55 cts. each, Am. Edi....	0	63	"	
Liddell and Scott's Greek Lexicon, (Abridged.) Eng. Edi.	2	00	"	20 40
Donnegan's Greek Lexicon. 8vo. \$3.25 cloth, sheep..	3	75	"	
[For Classical Maps, Chronology, &c., see pages 10, 11, 16, 28.]				

Classical Dictionaries, etc.

Smith's Classical Dictionary, illustrated. 8vo. Eng. Edi.	3	20	"	37 00
Smith's Smaller Classical Dictionary. } Illustrated,				
Smith's Smaller Dictionary of Antiquities. } 12mo, En. Ed.	1	60	"	18 60
Rich's Companion to Latin Dictionary and Greek Lexicon, Eng. Edi., <i>hb. lc.</i>	3	75	"	43 20
Baird's Classical Manual, Am. Edi., <i>bl.</i>	0	40	"	4 50
[See also other Classical Dictionaries and Lexicons, page 51.]				

3. FRENCH.

Merlet's Grammar, Eng. Edi., <i>twm.</i>	1	20	"	14 00
Merlet's La Traducteur. Eng. Edi.....	1	20	"	14 00

* For Arnold's entire works, See page 44—47.

NET CASH PRICE.

	\$	cts. each,	\$	cts. per doz.
Merlet's Dictionary of Difficulties. Eng. Edi.	1	45	"	16 50
Grammar: Also, in parts as follows:				
Pronunciation and Accidence.....	0	80	"	9 00
Syntax.....	0	80	"	9 00
Key to Grammar,.....	0	80	"	9 00
La Traducteur:				
Synonyms explained.....	0	60	"	6 40
Stories from French Writers.....	0	50	"	5 20
Synopsis of the Language.....	0	60	"	6 40
Table of Verbs on a Card.....	0	13	"	1 35
Arnold's First Book, Eng. Edi.....	1	20	"	13 20
Key to the Exercises.....	0	55	"	6 00
Arnold's Hand Book of Vocabulary, Eng. Edi.....	0	95	"	10 80
Noel and Chapsal's Grammar, (in French,).....	0	70	"	7 50
(in English,).....	0	65	"	7 20
Collet's Levizac's Grammar,.....				
Collet's Pronouncing Reader,.....				
Collet's Interlinear Reader,.....				
Collet's Anecdotes and Questions,				
Collet's Dialogues and Phrases,.....				
} Am. Ed. <i>12z</i>	0	50	"	5 25
Key to Collet's Exercises in Grammar.....	0	30	"	
Collet's French and English Dictionary. 8vo. Am. Edi.	3	00	"	
Surrenne's New Manual, Am. Edi., <i>duc</i>	0	55	"	6 00
Ditto, Eng. Edi.....	0	75	"	8 40
Spiers and Sarrenne's French and English Dictionary.				
(12mo.) Am. Edi.....	1	25	"	14 00
Do Eng. Edi.....	2	10	"	24 00

[See also other French authors, page 52.]

4. ENGLISH.

Lennie's Grammar, <i>ob</i>	0	34	"	3 60
Key to ditto.....	0	80	"	
Bullions' Grammar.....	0	50	"	5 50
National Grammar.....	0	13	"	1 10
Sullivan's Grammar.....	0	20	"	1 80
Art of Reading. (National Series.).....	0	20	"	1 90
Sullivan's Dictionary of Derivations.....	0	50	"	5 40
Sullivan's English Dictionary.....	0	70	"	6 60
The National Readers. Dublin Editions, Price as follows: *				
First Book.....	0	3	"	0 25
Second ".....	0	10	"	1 10
Third ".....	0	20	"	2 15
Fourth ".....	0	25	"	2 40
Supplement to ditto.....	0	25	"	2 40
Fifth Book.....	0	25	"	2 40
Sixth ".....	0	25	"	2 40
Sullivan's Spelling Book Superseded.....	0	25	"	2 40
Sullivan's Literary Class Book.....	0	60	"	6 00
Whately's Lessons on Reasoning, Eng. Edi. <i>jwp</i>	0	38	"	3 95
Whately's Lessons on Christian Evidences, or the Truth of Christianity. (Appendix to 4th National Reader,) Eng. Edi. 10 cts. each, Questions 5 cts. \$1.00 per doz., or \$1.50 with Questions, Am. Edi. 25 cts. each, \$2.75 per doz. including Questions in a separate pamphlet.				
Whately's Introductory Lessons on the British Constitution.....	0	13	"	1 20

* The first and second books are not required to be used in the Grammar Schools, but they are inserted here in order to give the series complete. The sixth book is designed for girls.

NET CASH PRICE.

	\$ cts. each,	\$ cts. per doz.
Political Economy in Chambers' Educational Course, ..	0 40	" 4 20
Spalding's English Literature. Eng. or Am. Ed. <i>ob. dac.</i>	0 75	" 8 40
Reid's Rudiments of English Composition, Eng. Ed. <i>ob.</i>	0 45	" 4 75
Key to ditto	0 75	"

[See also Books of Reference for Teachers, page 54.]

5. MATHEMATICS.

Arithmetic in Theory and Practice. (National Series)		
Eng. Ed.	0 25	" 2 20
Key to ditto	0 45	"
Thompson's, (James, LL.D., Glasgow) Arithmetic.	0 70	" 8 00
Key to ditto	1 25	"
Thompson's, (James, LL.D., Glasgow) Algebra.	0 95	" 10 80
Loomis' Treatise on Algebra,	0 88	" 9 60
Colenso's Simson's Euclid. [See other Mathematical Works. Page 53.]	1 05	" 12 00
Colenso's Algebra, Part I,	0 88	" 9 60
Key to ditto	1 15	"
Potts' Euclid, 12mo., Eng. Ed. <i>jvp</i> (For <i>8vo.</i> , <i>Edi.</i> , see page 53)	0 75	" 8 15
Mensuration (National Series)	0 22	" 1 90
Appendix to ditto	0 14	" 1 35

(See Slates, &c., in the *Writing Division* of this Catalogue, pp. 101, 104.)
For Mathematical Instruments and Geometrical Forms and Solids, see page 72, also School Apparatus, &c., and other Mathematical Works, page 53.

6. GEOGRAPHY AND HISTORY.

Sullivan's Introduction to Geography and History	0 18	cts. ea., \$1.80 per doz.
Sullivan's Geography Generalised	0 50	" 4 50
Epitome of Geographical Knowledge (National Series) ..	0 35	" 3 60
White's Elements of General History, Parts I, II, III., (Ancient, Middle Ages, and Modern) bound together, 95 cts. each, \$10.80 per doz. In parts.	0 55	" 6 00
White's History of Great Britain & Ireland, Eng. Ed., <i>ob.</i>	65	" 6 90
White's History of France,	65	" 6 90
Putz's Ancient Geography and History. By Arnold & Paul.	87	" 9 50
Putz's Medieval Geography and History. Do. Am. Ed. <i>dac.</i>	63	" 6 75
Putz's Modern Geography and History. Ditto.	87	" 9 50
Johnston's General School Atlas. } See Companion, {		
Johnston's Physical School Atlas. } vol. on Astrono- {	\$2.50	" 27 00
Johnston's Classical School Atlas. } my, page 35. {		
Pillars' Physical and Classical Geography. (Companion to Johnston's Classical Atlas)	80	" \$8 60

7. PHYSICAL SCIENCE.

Third, Fourth and Fifth National Readers.—[See List on page 40.]		
Youman's Chemical Atlas, with thirteen coloured plates. pp. 105: Am. Ed. 4to		
	Singly,	\$1.60; \$1.50 ea. pr half doz.
Youman's Chemistry, with coloured Chart.		
	Singly,	\$5.00
Ditto, without Chart.	63	cts. ea., \$6.75 per doz.
Olmsted's School Philosophy.	75	cts. ea., \$8.60 per doz.
Johnston's five Charts of Natural Philosophy, with Hand-Books		
	Singly,	\$2.38 " or \$2.25 ea. pr set
Patterson's First Steps to Zoology, Parts I. and II.	70	cts. " \$7.50 pr doz.

(See also "Natural History" Division—Zoology &c. Pages 56 and 107.)

Grammar
etc. Tho

NET CASH PRICE.

8. METEOROLOGICAL INSTRUMENTS

prescribed by the Grammar School Act:—One Thermometer; one Barometer; one Hygrometer; one Rain Gauge and Measure; one Wind-vane, as follows:

Self-Registering Maximum Thermometer: Negretti and Zambra's Self-registering Maximum Thermometer, with the degrees engraved on its own stem, and figures on plate glass; mahogany frame. Price...	9 00
Minimum Thermometer: With divisions engraved on its own stem glass, and figures on plate glass; mahogany frame. Price.....	9 00
Standard Barometer: Reading from an ivory point fixed in the cistern, with boiled glass tube at least $\frac{3}{8}$ inch in diameter; the reservoir 2.5 inch diameter, mounted in a brass frame; set screws to bring the tube vertical; external thermometer, with centigrade and Fahrenheit's scale; vernier worked by a rack and pinion, so divided as to shew the five-hundredth of an inch; a screw to make the barometer portable; the whole attached by brass brackets; mahogany frame. Price. ...	72 00
Mercurial Barometer: with boiled glass tube, $\frac{3}{8}$ inch in diameter; the reservoir of iron 2 $\frac{3}{8}$ inches in diameter, mounted in a brass frame; set screws to bring the tube vertical; external thermometer, with Fahrenheit scale engraved on glass; vernier worked by a rack and pinion, so divided as to shew the five-hundredth of an inch; the whole attached by brass brackets; mahogany frame. Price.....	36 00
Hygrometer: Wet and Dry Bulb Thermometer; with figures engraved on its own stem and on plate glass, mahogany frame.....	\$18 00
Rain Gauge: Glaisher's Rain Gauge of japanned tin, with graduated measuring glass. Price.....	\$ 9 00
Drew's Practical Meteorology: Text Book to accompany the Meteorological Instruments. 12mo. Eng. Edi. <i>pp.</i>	1 50
Glaisher's Hygrometrical Tables: Adapted to the use of Negretti and Zambra's Wet and Dry Bulb Thermometer. 8vo. Eng. Edi.	0 75
Wind Vane: Price of the set as above, with <i>Standard</i> Barometer (without vane) including cases, etc.....	120 00
Ditto do with <i>Mercurial</i> Barometer (without vane) including cases...	84 00

9. MISCELLANEOUS.

Hullah's Manual of Vocal Music.....	\$1.00 each, \$10.80 per doz
Also Charts, books of School Songs, &c., page 99.	
Mulhauser's Writing Manual.....	50 ets. " \$5.40 "
Models No. 1.....	50 " " "
Nos. 2, 3 and 4.....	20 " " \$1.50 "
National Copy Lines.....	38 " " per set.
Other Copy Lines, Latin or English.....	10 " " \$1 per doz.
National Book-keeping.....	14 " " \$1.35 "

Drawing-books and materials authorised by the Department of Science and Art, England; and those in this Catalogue. Various prices. [See Drawing Division, page 102.]

For a further list of classical authors, and maps, apparatus, and other school requisites, see the following list.

XX. CLASSICAL TEXTS, BOOKS OF REFERENCE, AND MATHEMATICS, ETC.

THE FOLLOWING BOOKS AND SCHOOL REQUISITES, ALTHOUGH NOT PRESCRIBED, ARE SUITABLE FOR GRAMMAR SCHOOLS, TEACHERS, &c.

1. CLASSICAL AND EDUCATIONAL WORKS, BY THE REV. T. KERCHEVER ARNOLD, M. A., OF CAMBRIDGE.

Keys (supplied to Masters or Tutors only) are published to those Works to which † is prefixed.

LATIN.

For the Latin "Books" (Grammar,) See authorised list of Grammar School Books, page 40, 41. (For Classical Maps See pages 10, 11. For Apparatus, See Index.)

NET CASH PRICE.

	OVID.—Elogæ Ovidianæ, with English Notes; Part I. (from the Elegiac Poems.) Eng. Edi. 12mo.	55 cts. each,	\$6.00 per doz.
	This Work is from the Fifth Part of the <i>Lateinisches Elementarbuch</i> of Professors <i>Jacobs</i> and <i>Döring</i> .		
	OVID.—Elogæ Ovidianæ, Part II; containing Selections from the Metamorphoses. With English Notes, Eng. Edi. 12mo.	\$1.10	" \$12.00 "
	† NEPOS.—Cornelius Nepos, Part I.; with Critical Questions and Answers, and an imitative Exercise on each Chapter, Eng. Edi. 12mo.	88 cts.	\$9.60 "
	Key	23 cts. each.	
	VIRGIL.—Virgilii <i>Aeneis</i> , with English Notes from Dübner, Eng. Edi. 12mo.	\$1.25	" \$14.40 "
	VIRGIL.—Virgilii <i>Bucolica</i> et <i>Georgica</i> , with English Notes from Dübner. (<i>In preparation.</i>)		
	VIRGIL.—Virgilii <i>Aeneidos</i> Libri I.—VI.; Addita est Interpretatio ex Adnotationibus Heynii, Wunderlichii, Wagneri, Forbigeri, aliorum excerpta. Svo. \$2.20	"	
	HORACE.—Horatii Opera, with English Notes from Dübner, Eng. Edi. 12mo.	\$1.50	" \$16.80 "
	† LATIN VERSE COMPOSITION, a <i>Practical Introduction</i> to. Contents:—1. "Ideas" for Hexameter and Elegiac Verses. 2. Alcaics. 3. Sapphics. 4. The other Horatian Metres. 5. Appendix of Poetical Phraseology and Hints on Versification, Eng. Edi. 8vo. \$1.20 each,	\$13.20	"
	Key	45 cts.	"
	CICERO.—Selections from Cicero's Orations, with English Notes, from the best and most recent sources. Part I. Contents:—The Fourth Book of the Impeachment of Verres, the Four Speeches against Catiline, and the Speech for the Poet Archias, Eng. Edi. 12mo.	88 "	" \$9.60 "
	CICERO.—Selections from Cicero, with English Notes, Part II.; containing Epistles, arranged in the order of time, with accounts of the Consuls, events of each year, &c., Eng. Edi. 12mo.	\$1.10	" \$12.00 "
	The Notes are from the best Commentators, especially Matthiæ.		
	CICERO.—Selections from Cicero, Part III.; containing the Tusculan Disputations (entire). With English Notes, translated from the German of Tischer, by the Rev. R. B. Paul, M. A., Eng. Edi. 12mo.	\$1.20	" \$13.20 "
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		Strepsiptera,	11. Brown Ant.
	12. Stylops.		

- | | | | | |
|--|-----------------------|---|---|----------------------------------|
| Sheet II. | { | Order Lepidoptera, | Fig. 1. Bee Hawk-moth. | |
| | | | 2. Caterpillar. | |
| | | | 2a. Cocoon, with the Chrysalis of Emperor moth. | |
| | | | 3. Emperor Moth. | |
| | | | 4a. Common Blue Butterfly on wing. | |
| | | | 4b. Ditto ditto at rest | |
| | | | 5. Water Scorpion. | |
| | | | 6. Tree Bug. | |
| | | | 7. Mule Aphis. | |
| | | | 7a. Female Aphis. | |
| | | | 8. Guat. | |
| | | | 9. Gad-fly. | |
| | | | 10. Flea. | |
| Sheet I. | { | | 11. Louse (of the Pigeon.) | |
| | | | 12. Spring-tail. | |
| | | | 13. Scolopendra. | |
| | | <i>Sub-Kingdom Articulata.—Three Classes.</i> | | |
| | | | Class I. Crustacea, | Fig. 1. Abhorrescent Water-flea. |
| | | | | 2. Notodeiphys. |
| | | | | 3. Anomalocera. |
| | | | | 4. Cyclops. |
| | | | | 5. Shore Crab. |
| | | | | 6. Hermit Crab. |
| | | | | 7. Lobster. |
| | | | | 8. Acorn Shell. |
| | | | | 9. Barnacle. |
| | | 10. Serpula. | | |
| | | 11. Horse-leech. | | |
| | | 12. Earth-worm. | | |
| | | 13. White Lug-worm. | | |
| <i>Sub-Kingdom Radiata.—Six Classes.</i> | | | | |
| Sheet K. | { | Class I. Radiata, | Fig. 1. Purple, or Boring Sea-urchin. | |
| | | | 2. Shell of a Sea-urchin. | |
| | | | 3. Star-fish. | |
| | | | 4. Jelly-fish. | |
| | | | 5. Small Jelly-fish; one of the naked-eyed Medusæ. | |
| | | | 6. Cydippe, or Berœ. | |
| | | | 7. Sea Fir. | |
| | | | 7a. Portion of the same mag., 50 diam, showing the cells and expanded Zoophytes. | |
| | | | 8. Sea Rush. | |
| | | | 9. Sea Anemone. | |
| | | | 10. Ditto. | |
| | | | 11. Sea Mat. | |
| | | | 11a. Portion of the same mag., 100 diam, or 100 by 100; showing the quidcunical arrangement of the cells. | |
| | | | 12. Tape Worm. | |
| | | | 13. Cystoid Worm. | |
| | | | 14. Vorticella. | |
| | | | 15. Rotifer Vulgaris. | |
| | | | 16. Bursaria Cucas. | |
| | | | 17. Polystomella Crispa. | |
| | 18. Rotalia Beccarii. | | | |
| | 19. Palmated Sponge. | | | |
| | II. Zoophyta, | | | |
| | III. Entozoa, | | | |
| | IV. Infusoria, | | | |
| | V. Foraminifera, | | | |
| | VI. Amorphozoa, | | | |

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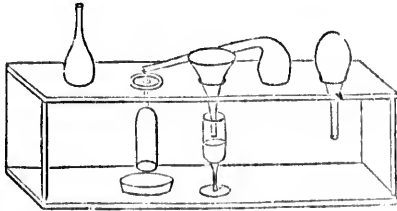
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(See also Physical Science, page 29, and Books of Reference, etc, page 54.)

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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..... 1 25

- | | |
|----------------------------------|------------------------------|
| 1. Oxygen, <i>White.</i> | 5. Arsenic, <i>Green.</i> |
| 2. Hydrogen, <i>Pale Blue.</i> | 6. Carbon, <i>Black.</i> |
| 3. Selenium, <i>Pale Brown.</i> | 7. Heavy Metal, <i>Blue.</i> |
| 4. Phosphorus, <i>Flesh red.</i> | |

Gallaway's Chemical Plates, constructed for the Department of Science and Art, London, comprising:

- Table of Elements, mounted on rollers and varnished. Size, 4 feet 3 by 3 feet.
- List of Basic substances,
- List of Acid substances,
- General formula of the more important Salts.

} Mounted on one canvas and rollers, and varnished. Size, 2 ft. 3 by 3 ft. 3, each singly.

Price for the set, mounted, &c..... 3 00

Griffin's Dietaries, 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 Soldier, French Soldier, Dutch Soldier, English sailor, (of 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..... 2 38

2. CHEMICAL APPARATUS AND TEXT BOOKS.

- Griffin's Schoolmaster's Laboratory**; [No. 2128.] An organised Collection of Chemical Apparatus, sufficient for a course of Elementary Lessons, or for the performance of Chemical Analysis; arranged for the use of Schoolmasters, Lecturers, and Teachers of Practical Chemistry. The number of articles in this collection is about 270, all of which have been made after the most approved models, and are of the best materials and workmanship. The instruments will be found to be well fitted to one another, and the assortment to embrace whatever is most essential to the modern philosophical chemist. Price, neatly packed in a box.....60 00
- Griffin's Schoolmaster's Laboratory**; [No. 2129.] For the same objects, but a more expensive collection. This set extends to about 400 Articles, including very complete sets of Portable Furnaces, Lamp Apparatus, Gas Apparatus, &c. All the Instruments are of the best quality. Price, packed in a box.....100 00
- Griffin's Apparatus for Johnston's Agricultural Chemistry.**—Griffin's Collection of Chemical Apparatus and Preparations; [No. 1725] for the performance of the Experiments requisite to demonstrate the Chemical Facts contained in Professor Johnston's Catechism of Agricultural Chemistry and Geology. Adapted for the use of Schoolmasters, with printed instructions. Price, packed in a box, with Text Book, Eng. Edi..... 8 00
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do, do, (English Edition.) 24mo., pp. 63, cloth, stitched.... 20
- Johnson's Elements of Agricultural Chemistry and Geology.** By Professor James F. W. Johnston, A. M., (Eng. Edi.) vbs, 12mo., pp. 337..... 95
do, do, (Am. Edi.) 12mo., pp..... 80
- Griffin's Apparatus for Stockhart's Chemistry.**—A collection of apparatus for performing the Elementary Experiments described in Stockhart's Principles of Chemistry. Packed in a box, with text book. 4 75
- Stockhart's Principles of Chemistry**, illustrated by simple experiments: by Dr. Julius Adolph Stockhardt. Translated by C. H. Pierce, M.D., and edited by Professors Peirec and Horsford, of Harvard University, pp. xix, 681, Eng. or Am. Edi. *jb, hgb*..... 1 00
- Stockhart's Chemical Field Lectures for Agriculturists**, 12mo, Eng. Edi, *hgb*..... 1 05
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Cabinet No. 0, in black pine box, containing most essential articles, with Chemical Recreations..... 3 00
Cabinet No. 1, in mahogany box, containing nearly 40 articles, do..... 4 50
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Statham's Chemical Cabinets, similar to the foregoing, (Negretti and

Zambrà's :—)

Cabinet No. 1, in mahogany box, contains upwards of 60 chemical reagents, &c.....									5 50
do No. 2,	do	do	do	do	do	do	do	do	superior 8 00
do No. 3,	do	do	do	do	70	do	do	do	11 00
do No. 4,	do	do	do	do	79	do	do	do	16 00
do No. 5,	do	do	do	do	for qualitative analysis 44 00				

**Statham's Agricultural Test Chests, for the qualitative analysis of soils,
manures, &c.**

Cabinet No. 1, in pine box, with nearly 100 reagents.....	16 00
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do No. 3, do do do do do do do do	44 00

Griffin's Chemical Apparatus :

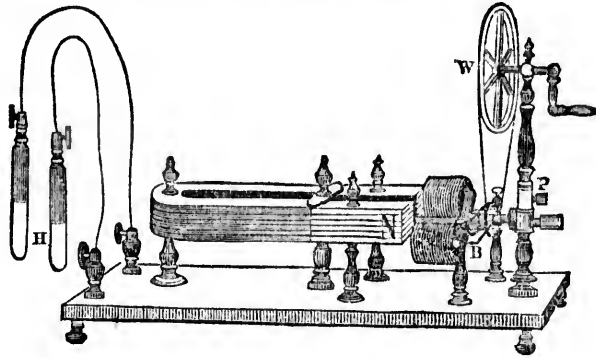
1. Universal Portable Furnaces, refractory fire clay, bound with iron,
English manufacture..... 11 00
2. Evaporating Furnace with handle..... 75
3. Combustion Furnace as improved by Stenhouse..... 1 25
4. Glass Tubes and Syphons.
 - [1.] Combustion Tubes each..... 20
 - [2.] Bent Chloride of Calcium Tubes, each..... 10
 - [3.] Bent Connecting Tubes, each..... 20
 - [4.] Suction Tubes, each..... 10
5. Gas bottle, with jet, for Philosophical candle, with glass tube, for exhibit-
ing the sound produced by the flame..... 40
6. Plain Syphons, each..... 10
7. Gas bags vulcanised, each..... 2 00
8. Brass Stop Cocks..... 90
9. Glass apparatus to collect water produced by burning hydrogen gas... 80
10. Spherical balloons for gas. Various sizes, from 35 cents to..... 1 50
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12. Centigrade Test Tubes, or Alealimetres, each, with Block and Screen to
read ditto..... 1 70
13. A 16 feet measure divided into 5ths., with mahogany foot..... 2 00
14. Glass Funnels with stop cocks, each from \$1.20 to..... 2 00
15. Glass Funnels, as-sorted sizes, per dozen..... 40
16. Funnel holders, covers, &c., &c., various prices.
17. Boiling flasks, German glass blown, various prices.
18. Round Tin Plate Stills, one gallon, with dome, and block tin serpentine
pipe, and worm tube..... 4 00
19. Chemical balances with weights in mahogany box. See also page 74... 1 00
20. Semi porcelain mortar, without spout, various prices.
21. Thermometer for Chemical use, various prices.
22. Chemical Labels, 5 00 each, No. 1, small 10 cts., No. 2, large 35 cts.
23. Ritchie's Lamp Stands. } See page 79.
24. Ritchie's Test Tubes. }

Negretti & Zambrà's Chemical Laboratories and other Apparatus, &c.**3. MISCELLANEOUS.**

Tegetmeyer's School Tablets, in three Sheets ; viz., (1) Specific Gravities, 30 in. by 20 (2) Temperatures, 30 in. by 20, (3) Diagrams of Thermome- ter--Fahrenheit and Centigrade, 60 in. by 10 Eng. gs. Price per packet.....	23
Brand's Tables of Chemical Equivalents, Weights, Measures, etc. In five sheets, Eng. Edi. <i>imp.</i> Price per packet.....	75
Rose's Chemical Tables, 8vo. cloth, pp. 69, Am. Edi., <i>lbc</i>	63

NET CASH PRICE.

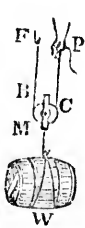
Macadam's Tables, introductory to a course of testing qualitative and quantitative Analysis, by John Macadam, 8vo. paper, pp. 24, with sheet of oxides, bases and acids, Eng. Edi. paper, *rye*..... 20



(MAGNETO-ELECTRIC MACHINE)

XXIV. NATURAL PHILOSOPHY.

1 DIAGRAMS.



W. and A. K. Johnston's Illustrations of Natural Philosophy, Sheet No. 1, Properties of Bodies, 37 Diagrams. No. 2. Mechanical Powers, 47 Diagrams. No. 3. Hydrostatics, 28 Diagrams. No. 4. Hydraulics, 35 Diagrams. No. 5. Human Anatomy and Physiology, 27 Diagrams. The Illustrations are carefully drawn and colored after Nature, and the Series include the most interesting phenomena of General Science. Size of each sheet, 4 feet 2 inches, by 3 feet 6 inches. Price, (including descriptive Hand-books,) on Cloth and Rollers, per set of five, varnished 11 25
Ditto, ditto singly..... 2 38

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Darton's Illustrations of Mechanical Powers, in a series of 8 coloured Plates.

Per set, in sheets and wrapper..... 1 25

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Darton's Mechanics for Infant Schools, coloured, 10 illustrations on a sheet, 33

2. WALTON & MABERLY'S DIAGRAMS AND EDUCATIONAL MODELS.

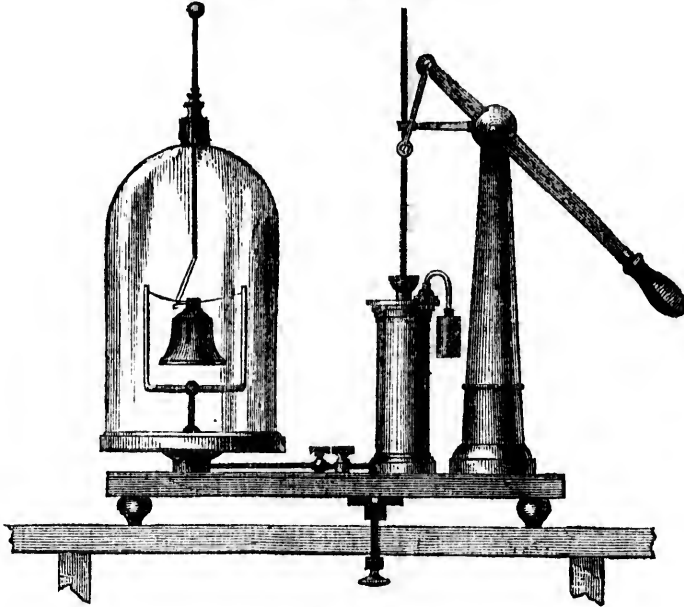
A set of Apparatus for Hydrostatics, Hydraulics, and Pneumatics; with a Pamphlet containing full descriptions and directions for performing many experiments. Price in a box..... 34 00

Apparatus for Cohesion, Capillary Attraction, Electric and Magnetic Attraction, Impenetrability and Inertia; with descriptions and Diagrams, See illustrations on page 86. Price in a box..... 6 00

A Machine for Illustrating Centrifugal Motion; including a representation of the Governor of a Steam Engine. In a box, See illustration on page 86.	2 75
The Bent Lever. Convertible into a Bent Lever or Toggle Joint Press. With weights, and a description, Price.....	2 75
Apparatus for Magnetism. Price in a box.....	5 50
Set of Mechanical Powers; containing the Lever—Wheel and Axle—A Series of Pulleys—The Inclined plane—Wedge—Screw; with examples of the Parallelogram of Forces—Centre of Gravity—Friction—Collision of Elastic Bodies—Compound Lever. (See illustrations on page 86.)	
1. For Schools and small Lecture rooms (height of the frame, 2 feet 6 inches; width 2 feet 3 inches).....	28 50
2. A Smaller Set, omitting the Parallelogram of Forces and Collision of Elastic Bodies, (height of the frame, 2 feet 1 inch; width, 1 foot 11½ inches).....	14 25
3. A Commoner Set (height of the frame, 2 feet; width, 19 inches).....	7 25
A Train of Spur wheels, mounted on a mahogany stand, with weights. Price in a box.....	6 00
A Double Inclined Plane, with an Application of the Composition and Resolution of Forces. In a box.....	2 75
A Portable Hydrostatic Bellows; with description and Diagram, including a weight. Price in a box.....	6 00
A Sectional Model of the Steam Engine; by which the motions of the several parts, its internal structure, and the high and low pressure principles, can be easily explained. Price in a box. (See pages 81 and 88.)	11 50
A Pyrometer, for showing the Expansion of Metals. Price.....	4 25
Geometrical Solids. The five regular Solids.—1. Tetrahedron; 2. Octahedron; 3. Icosahedron; 4. Hexahedron; 5. Pentagonal Dodecahedron; 6. Rhomboidal Dodecahedron; 7. Bipyramidal Dodecahedron; 8. Trapezohedron. Pyramids.—9. Triangular; 10. Quadrilateral; 11. Hexagonal; 12. Octagonal Prisms.—13. Triangular; 14. Quadrilateral; 15. Hexagonal; 16. Octagonal.—17. Sphere; 18 Cylinder; 19. Cone. The set in a box. (See illustrations on pages 93 and 95).....	2 50
Another Set, containing the Conic Sections. Price.....	5 00
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An Instrument for Teaching Geometry; convertible into a Theodolite, Spirit Level, Hadley's Sextant, and Wollaston's Goniometer. Price in a box	14 50
A Pair of large Dividers, for making Diagrams on a black board.....	1 15
Minasi's Mechanical Diagrams. For the use of Lecturers, and Schools. Complete in five numbers, each containing three sheets of Diagrams, coloured, illustrating the following subjects:—1 & 2. Composition of Forces.—3. Equilibrium. 4 & 5. Levers.—6. Steel-yard, Brady Balance, and Danish Balance. 7. Wheel and Axle.—8. Inclined Plane.—9, 10, 11. Pulleys.—12. Hunter's Screw.—13 & 14. Toothed Wheels.—15. Combination of the Mechanical Powers. By F. Minasi. The Diagrams are printed on large sheets of paper, measuring 2 feet 11 inches by 2 feet. This size will be found suited for large lecture rooms With descriptions in sheets.....	3 50
Ditto, ditto mounted on 15 rollers.....	9 00
(See also <i>E. S. Ritchie's Apparatus</i> , page 73; <i>Ide & Dutton's Apparatus</i> , page 90; and <i>Holbrook's Apparatus</i> , page 91.)	

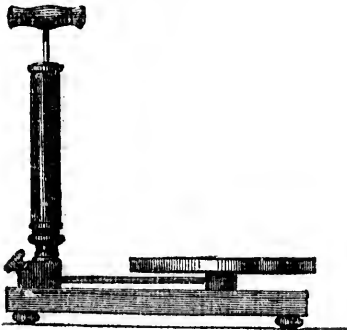
3. EDWARD S. RITCHIE'S MODELS AND APPARATUS.*

(1.) PNEUMATICS.

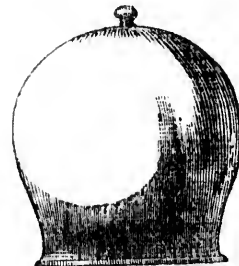


AIR PUMP, NO. 7.

Air Pump No. 1; barrel $7\frac{1}{2}$ by 2 inches; plate 8 inches; basement mahogany, well finished.....\$30 00



AIR PUMP, NO. 8.



BELL GLASS, NO. 12.

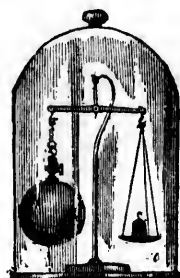
Air Pump No. 2; barrel 7 by $1\frac{1}{2}$ inches; mahogany basement; plate 6 inches. It may be used upright or diagonally; the pump is also a condenser. Price with Swelled Bell Glass.....\$16 25

* The illustrations of these apparatus etc., were kindly furnished by the Manufacturer, Mr. E. S. Ritchie, Boston, U. S.



HEMISPHERE CUPS, NOS. 32—34.

Hemispherical Cups; with stop cock, handles, and stand; 5 inch diameter inside, No. 32.....	8 50
Hemispherical Cups; with stop cock, handles, and stand; 3 inch diameter.	6 00
Hemispherical Cups; with stop cock, handles of cast brass, and stand; 2½ in diameter, No. 34.....	\$4 25



AIR BALANCE, NO. 60.

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 weights can be used for other purposes.] with brass globe.....\$7 25

2. ELECTRICITY. (See page 55.)

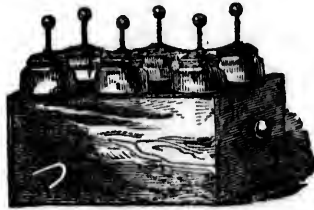
Electrical Machine; plate 30 inches; prime conductor 36 by 5 inches, with double and separable sets of points, draw tube and ball; negative conductor 5 inches, basement 5½ feet by 3 feet, of mahogany, shaft 44 inches from floor, insulated crank; in every respect well finished No. 6.	\$105 00
Electrical Machine; plate 24 inches, prime conductor 18 by 4 inches, negative 4½ inches, rubbers 8 by 1½ inches; basement like the foregoing No. 7.	\$60 00
Electrical Machine; plate 20 inches, prime conductor 16 by 3½ inches, negative 4 inches, rubbers 6½ by 1½ inches; base like the foregoing No. 8.	\$30 00

NET CASH PRICE.



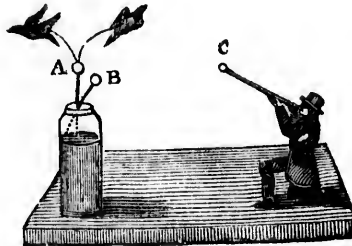
LUMINOUS LEYDEN JAR, NO. 15.

Diamond or Luminous Jars; the spots are perforated to show the points on both sides; two and four quarts.....\$3.75



ELECTRIC BATTERIES, NO. 16.

Electric Batteries; neatly cased, four 1 quart jars, \$7.25 six 1 quart jars \$9.60, four 2 quart jars\$12.00



ELECTRIC SPORTSMAN AND BIRDS, NO. 17.

Electric Sportsman and Birds; used with electrometer jar. 90 cts. & \$1.25
 Electric Birds, per dozen. 90 cts. & \$1.25.



INSULATING STAND, NO. 19.

Insulating Stand; with jar and electrometers, No. 19.....\$4 80



SPIRAL SPOTTED TUBES, NOS. 22 AND 23.

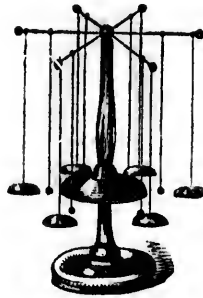
1. Spiral Spotted Tube and Stand; No. 22. two feet, \$3; three feet... 3 60
2. Set of Six Spiral inside Spotted Tubes; with centre insulated pillar, and revolving discharger mounted on mahogany stand; with two feet tubes, No. 23.....24 00

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



ELECTRICAL DISCHARGER, NO. 28.

Plain Discharger; large glass handle, No. 27, \$2 40 and..... 3 00
 Jointed Discharger; large handle, best form, No. 28..... 4 25



SIX BELLS, NO. 34.

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

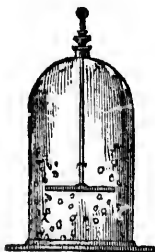


LEYDEN JAR AND BELLS, NO. 35.

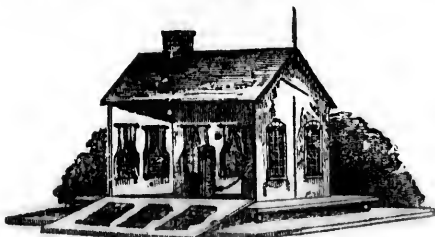
Leyden Jar; with bells and stand, No. 35..... 6 00
 Dancing Image Plates; on insulating and adjusting stand No. 38.. 7 25
 Stand for Illuminating Eggs, No. 39..... 1 80
 Dancing Images; of pith, painted, per pair No. 40..... 0 60



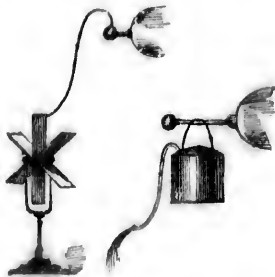
Gold Leaf Electrometer No. 43, with evaporating cup and point, \$2.40,
and 3 60



Bell Glass and Stand; for dancing pith balls, No. 46..... 2 40
Electric Swing and Image, No. 62, \$1 25, and..... 2 40

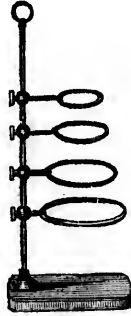


Thunder House; illustrating the lightning rod; the house is held to-
gether by magnets, and is blown down by the discharge of a gas
pistol within; complete. No. 76..... 6 00

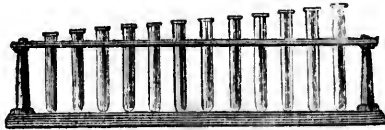


(3.) **CHEMISTRY.** (See page 67.)

Electric Float; wheel and point, No. 78, \$1 25 and..... 1 80

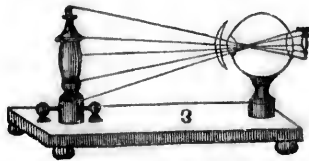
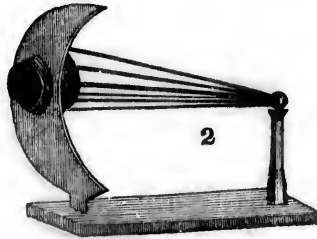


Lamp Stand, with four bows and binding screws, No. 20..... 2 40

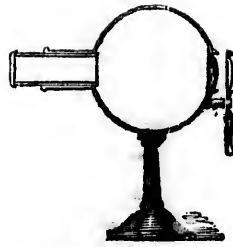


Test Tubes, with stand; 1 dozen assorted, No. 59..... 2 40

(4.) OPTICS.



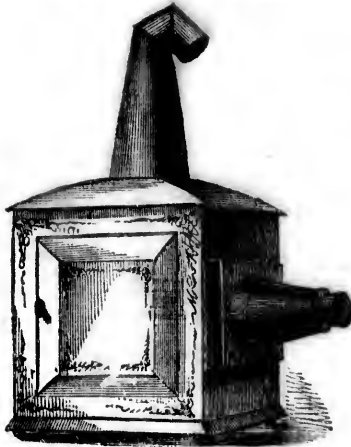
Models of Human Eye; in three parts, viz., (1) the eyeball dissected, and stand; (2) the muscles of the eye; (3) the cat... of the long, short, and perfect sight. No. 23..... 14 50



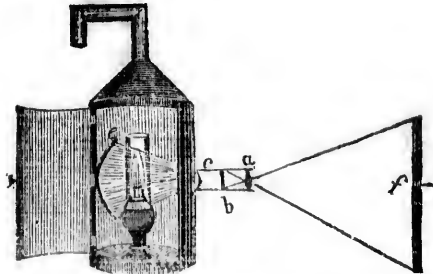
Artificial Eye, to show the application of spectacles to long and short sight. No. 49, \$6 00 and..... 8 50



Mounted Prisms; six inches. No. 48, \$3 00; eight inches 4 80



Improved Magic Lantern, (larger than the English;) condensing lenses, four inches diameter, mounted in brass cell $2\frac{1}{2}$ inches meniscus magnifying lenses, solar lamps, silvered reflector, spring slider holder, and brass sliding tube. Pictures from $2\frac{1}{4}$ to $3\frac{1}{2}$ inches are shown clear and distinct, 8 to 12 feet diameter on screen. Price..... 30 00

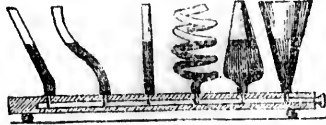


Griffin's Magic Lantern (Phantasmagoria) and box; with a complete set of highly finished astronomical diagrams and descriptive book \$25 00

Griffin's Magic Lantern with a urgard reflector, and a complete set of astronomical diagrams; accompanied with a descriptive book 15 00

Magic Lantern Slides, as follows;

Birds; 7 slides, 28 pictures.....	17 00
Amphibia; in 4 slides, 16 pictures.....	9 75
Fishes; in 5 slides, 20 pictures.....	12 00
Insects; in 8 slides, 37 pictures.....	19 50
Views; in 4 slides, 12 pictures.....	12 00
Astronomy; 11 slides, 30 pictures.....	22 00
Views of Public Buildings &c.....	



Equilibrium Tubes; mahogany base, six tubes, brass capped. No. 2. 4 80
 Equilibrium Tubes; six forms, mahogany base. No. 3..... 3 00



Siphon and Cup, or Tantalus's Cup; illustrates intermitting springs. No. 20 1 80



Glass Model of the Diving Bell; with lead ring. No. 21, 1 80; with cap and tube..... 4 25

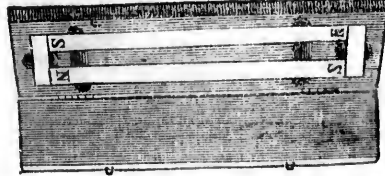
(5.) STEAM.

Moving Sectional Model of low pressure Steam Engine..... 30 00

(See also, Taylor and Walton's, Apparatus, page 71, and Reynolds and Mabrun's illustrations of various engines, page 88.)

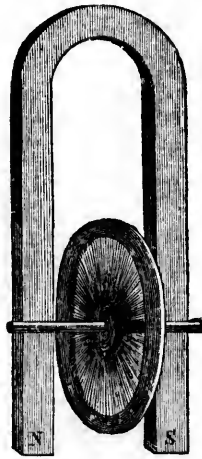
(6.) MAGNETISM.

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

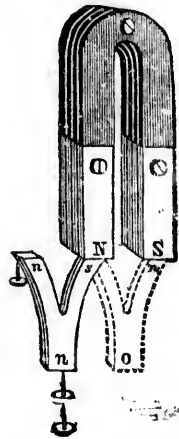


Pair Bar Magnets and Armature; in Box 10 inches. No. 1..... 3 60

Ide and Dutton's Magnets, various sizes, from 20 cts. to..... NET CASH PRICE. \$0 50



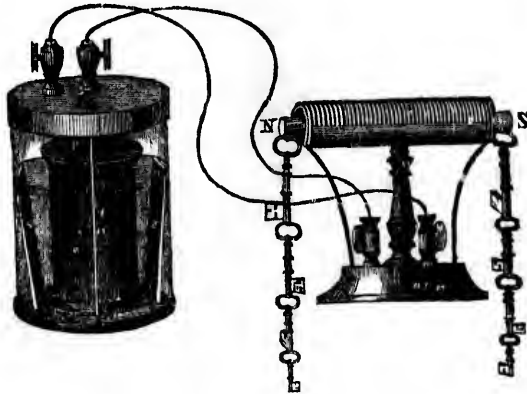
Wheel Armature; revolves on U magnet; No. 6, 60 cents and.... 0 90



Bar, Star, and Y Armature. No. 7..... 1 80
Sulphate of Copper Battery; 6 by 9 inches. No. 9..... 7 25



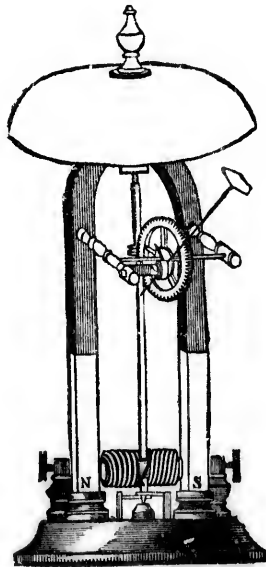
Dipping Needle; brass stand. No. 15..... 1 25



No. 19.

No. 18.

Helix and Bar; on stand. No. 18.....	2 50
and.....	3 00
Smee's Battery: per pair. No. 19.....	1 80
and.....	2 40

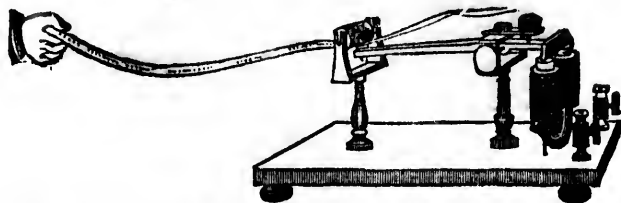


No. 28.

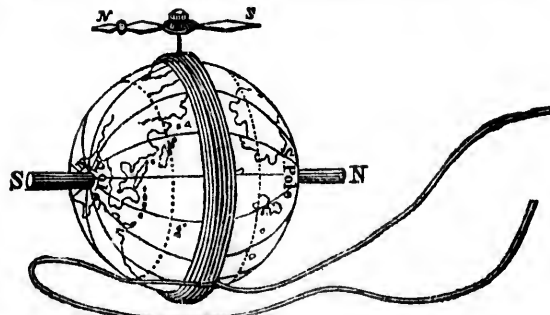
Horizontal Revolving Armature Bell Engine. No. 28.....	12 00
Revolving Electro Magnet: Page's No. 29.....	9 00



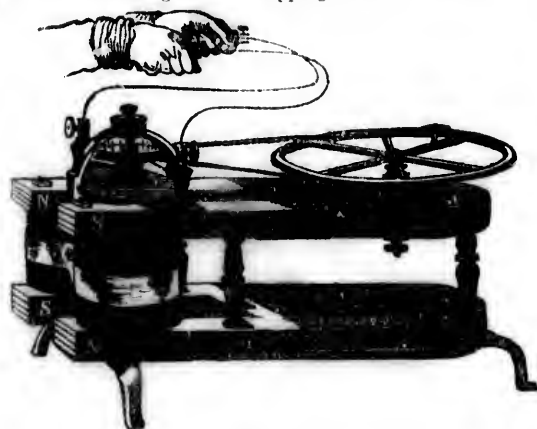
Grove's Battery: single pair. No. 35..... 1 80
 and..... 2 40



Model of American Telegraph, with Spool and Paper. No. 88..... 6 00
 (See also Reynolds' diagram of English Telegraph, page 88.)

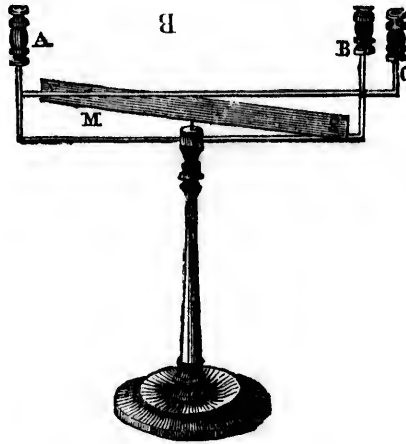


Globe and Coil with Magnets and Dipping Needle. No. 45..... \$4 80



No. 48,
 Magneto-Electric Machine. No. 48..... 30 00

Inert
 Capil
 Capil
 Glass



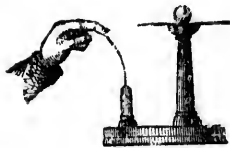
No. 50.

Oersted's Galvanometer. No. 50, \$3 60 and..... 4 25

(7.) MECHANICS.

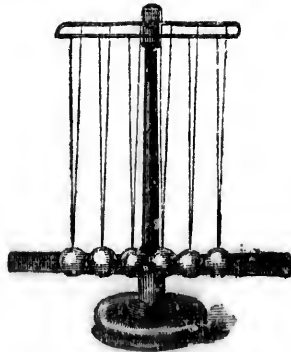


Pair Flask Plates, and handles, for cohesion. No. 1..... 1 25



No. 3.

Inertia Apparatus Stand, with spring and ball. No. 3..... 0 90
 Capillary Tubes, set of six, with stand and water pan. No. 4, 90 cents and 1 80
 Capillary Plates, of plate glass, showing the Parabolic curve. No. 5..... 0 60
 Glass Plate, with hook and cord for liquid cohesion. No. 6..... 0 90



Nos. 12 and 13.

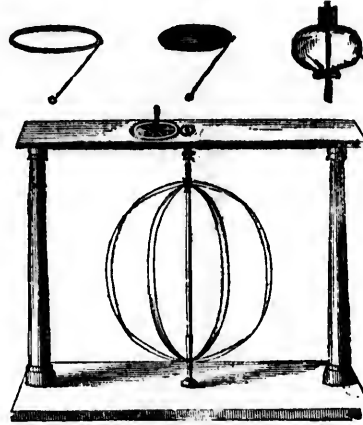
Collision Balls, the same, with six 1 1/2 inch lignum vitae balls. No. 12 4 80
 Collision Balls, mahogany stand, six 1 1/2 inch balls, single cord. No. 13 3 60

1 80
2 40

6 00

\$4 80

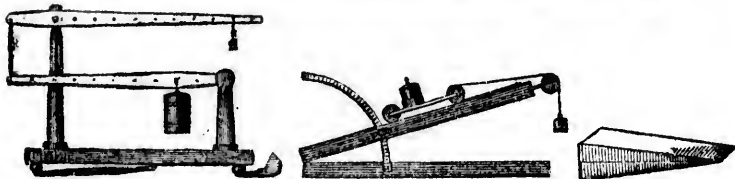
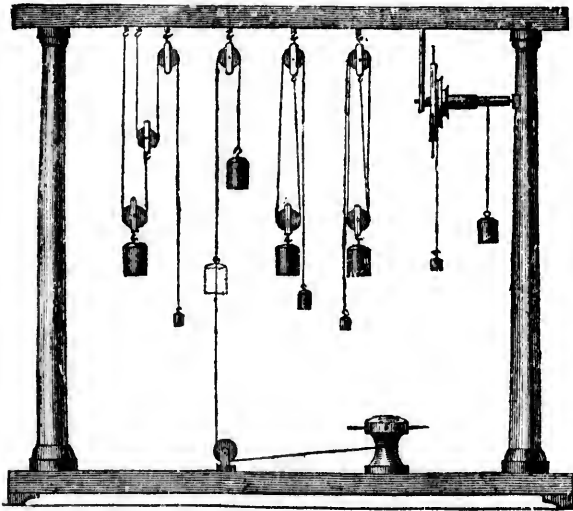
30 00



NO 16.

Centrifugal Machine, mahogany frame, with brass geared wheels, with eight illustrations of central and centrifugal forces, of the cause of the flattening of the poles, &c., No. 16.....\$9 75

See also Taylor and Walton's apparatus, page 71.

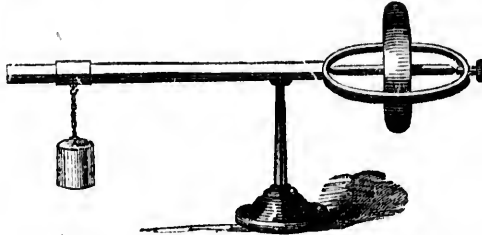


No. 21, 23.

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- Mechanical Powers, mahogany frame, with four sets brass pulleys, with silk cord, and balanced, two sets brass weights, simple and compound levers, wheel and axle, screw and lever with nut, screw as an inclined plane, wedge in sections, inclined plane with arc and binding screw, carriage, ship's capstan, &c.; complete, No. 21.....\$30 00
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(See also Taylor and Walton's, and Johnston's Mechanical Powers, at pages 71, 72.)



Gyratoire.—This new instrument illustrates remarkable effects of Rotatory Motion and the principle of *Fourcault's* experiments. An oblate spheroid, or wheel, is suspended on a frame, balanced on a point, on which it revolves freely;

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Holbrook's Lane's Mechanical Paradox, somewhat similar to the above, \$2 50, \$3 50 and..... \$5 00



Illustration of La Place's Theory. This instrument as improved by Dr. A. Means, is a glass globe, with cap; a shaft, with metal button and crank, stop cock and stand. A quantity of oil is suspended in alcohol and water of same specific gravity around the button, turn the crank until it acquires a rotatory motion, and a prolate spheroid will be formed; rings will be formed, which will break up into *planets*. ..7 25

4. GRIFFIN'S APPARATUS AND DIAGRAMS.

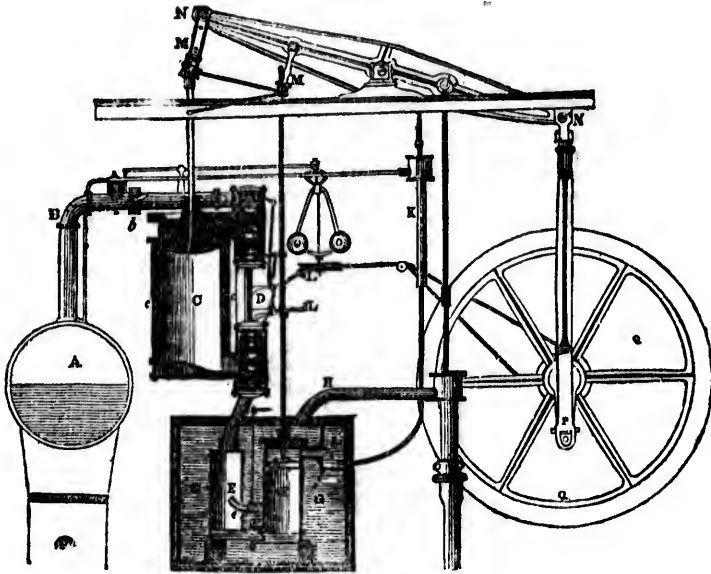
(1.) Apparatus.

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4. Kreidl's Hydrostatic Blowpipe, of glass, Woulff's bottle of 6 pints, with tube complete..... 2 50
5. Blowpipe jet, with universal joint..... 2 00
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(For Minerals for Blowpipes. See pages 32, 33.)

(2.) Griffin's Mechanical Diagrams.

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|---|--------|
| Gas Works about 6 ft. by 3 ft. finely coloured, on canvas and rollers..... | \$1 38 |
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| Iron furnace about 1 ft. by 3 ft., finely coloured, on canvas and rollers.... | 55 |
| Gas Works as above mounted, on linen without rollers..... | 1 20 |
| Glass House do do do | 80 |
| Iron furnace do do do | 40 |



5. MISCELLANEOUS.

(1.) Steam Engines, &c.

Mabrun's Mechanical Diagrams, French Lithographs, beautifully colored and shaded; prepared for and approved by the Department of Science and Art, London, viz :—1. Turbine. 2. Pumps. 3. Hydraulic Press. 4. Water Wheel. 5. Locomotive Steam Engine. 6. Stationary Steam Engine. Size of each Diagram 5 feet 3 inches by 4 feet. Mounted on rollers and varnished. Price each.....\$4 50

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(See also pages 72 and 81.)

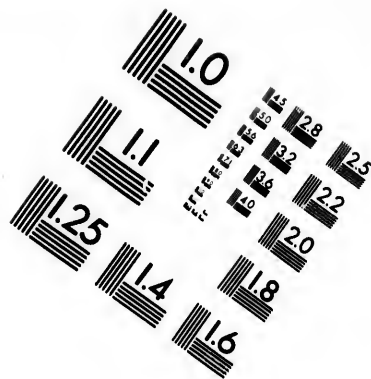
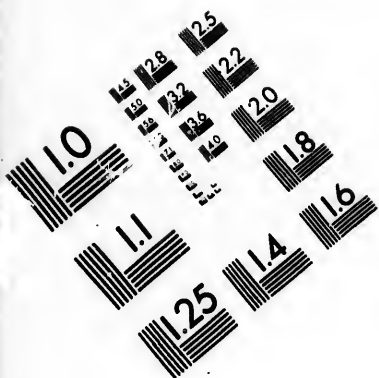
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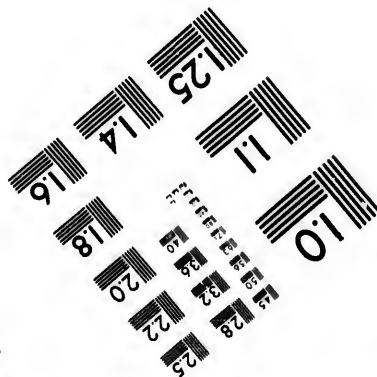
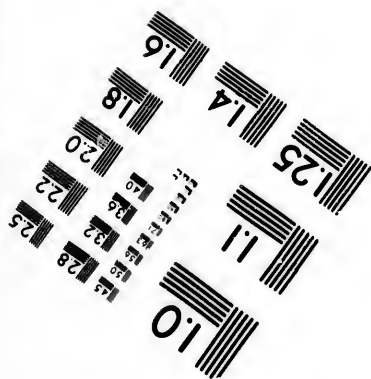
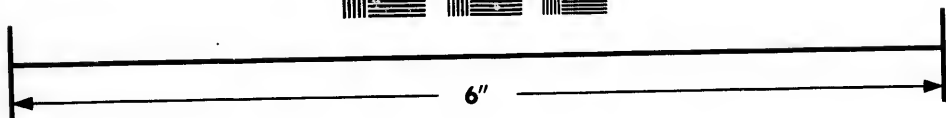
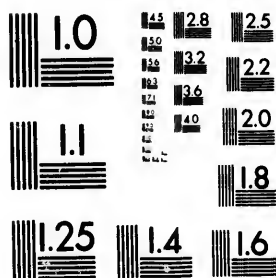
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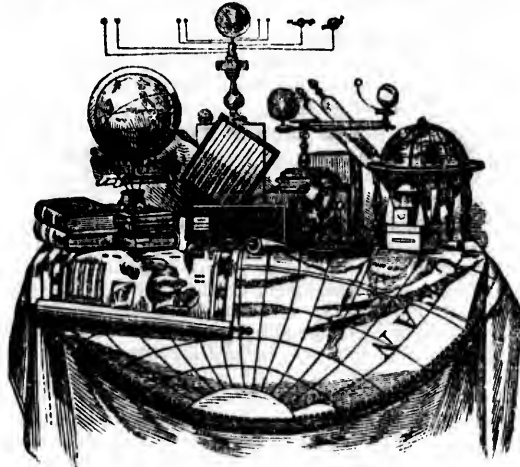
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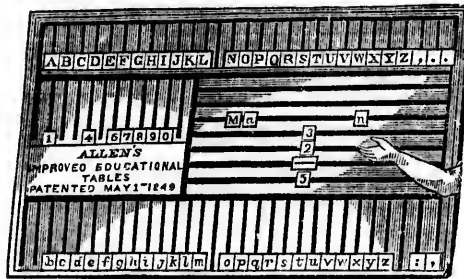
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XXV. SCHOOL APPARATUS, ETC.



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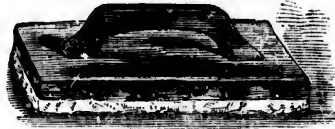
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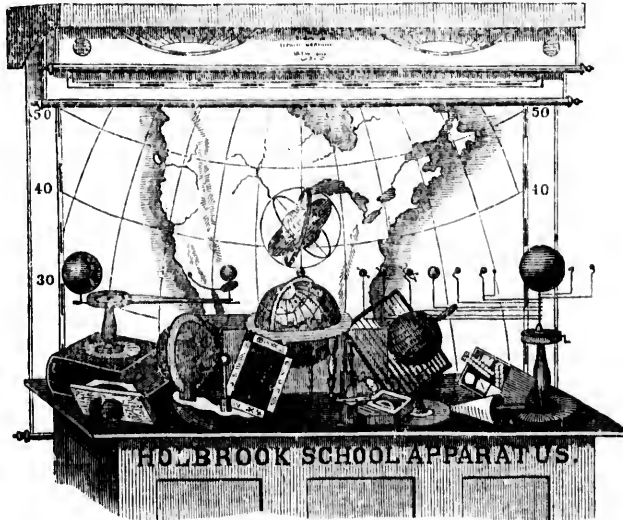
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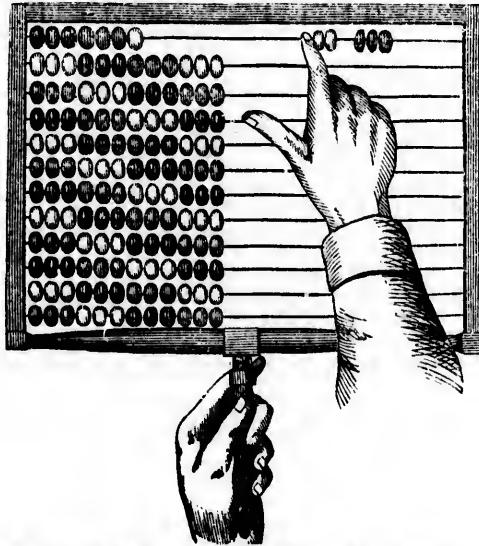
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(See also page 72.)

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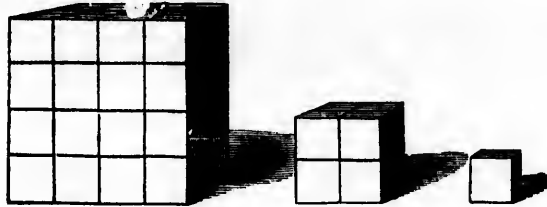
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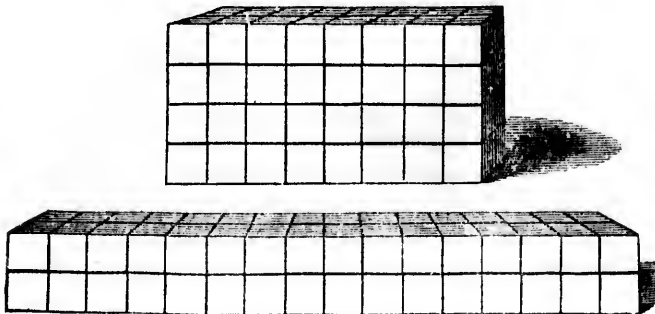
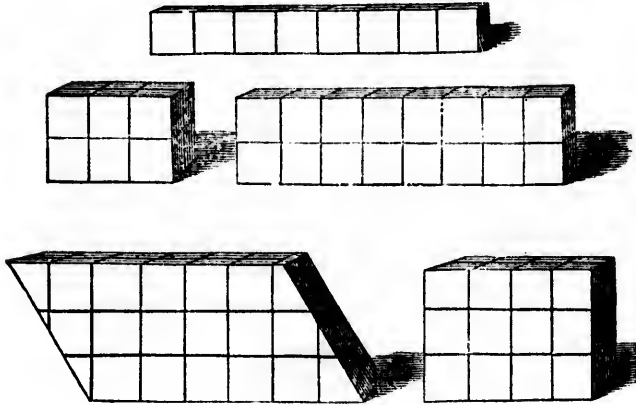
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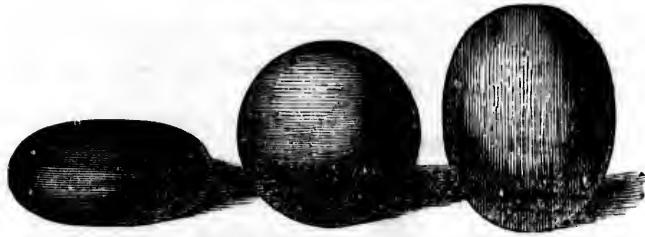
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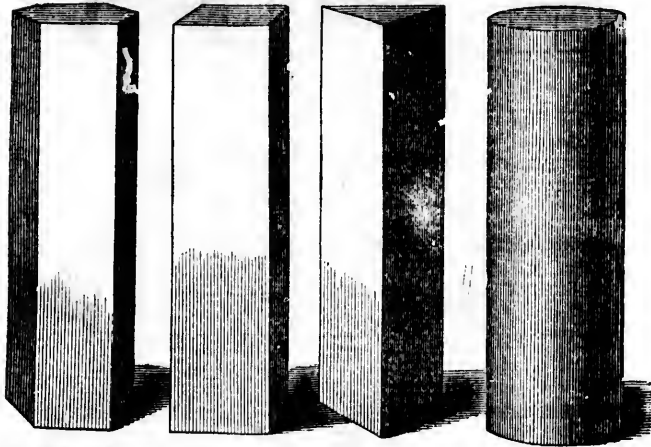
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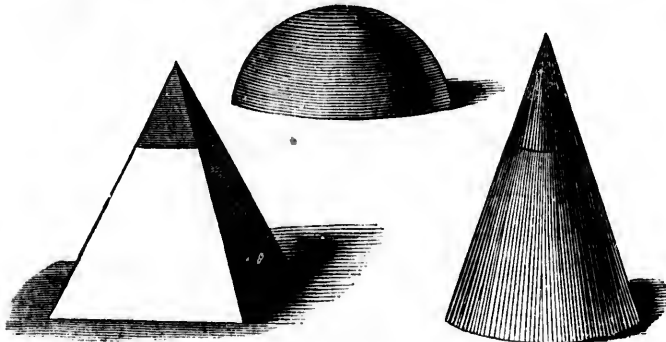


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PRISM.

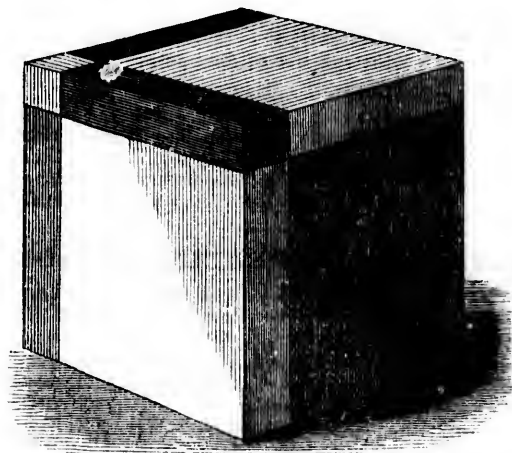
TRIANGULAR PRISM

CYLINDER.



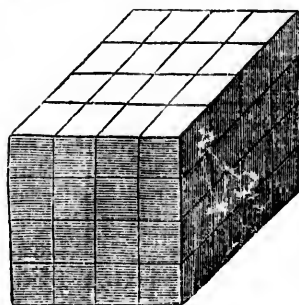
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Varty's Series of Lesson Sheets: These Lessons are printed with a clear, bold type, the subjects judiciously selected and simply arranged; and whether in families. Public or Private Schools, will be found instrumental in forwarding Religious and Secular Knowledge.

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Largest Roman Capitals and Small, 2 $\frac{1}{4}$ ths, 2 sheets, double foolscap broad-side	13
Demy Broadside, Roman, C. & S., 1 $\frac{1}{4}$ th, 2 sheets	10
do do Red and Black	20
Foolscap Broadside, Roman, C. & S., 1 $\frac{1}{4}$ th, 2 sheets	07
do do C. & S., Red and Black, 2 sheet ..	13
Arranged, Roman Small, Red and Black, 1 $\frac{1}{4}$ th, 1 sheet	07
Vowels, Consonants and Stops, coloured type, 1 sheet	07

Spelling and Reading Lessons: Reading Disentangled. A series of classified Lessons in Spelling and Reading. The Lessons embrace Reading and Spelling, with numerous Engravings, to assist in explaining the power as well as the names and forms of the letters. Price in sheets, per set of 37 Lessons, plain

do do do coloured	1 25
do do do coloured	1 88
Progressive Spelling, combined with reading exercises—Part 1—14 sheets	0 50
Progressive Spelling, Part 2, containing two and more syllables, systematically arranged. 10 Sheets	50
First Steps to Reading, 14 sheets ..	0 50
The Infants Help to Reading—in 18 Lessons,	0 60
History of Joseph and his Brethren, in easy language for Children, 16 sheets	0 50
One Hundred Easy Tablet Lessons, from the New Testament, Chronologically arranged in harmonized narrative from the Four Gospels, with the places stated at which the events occurred, with Text Book ..	1 25
Do. do on very large sheets, and in large type, with Text Book ..	3 75

Geography. Early Lessons in Geography, 14 Lessons

Prayers, &c. Morning and Evening Prayer for Schools, on two sheets ..	0 12
The Lord's Prayer, and Apostle's Creed, 2 sheets	0 7
Ditto in one sheet (per dozen 50 cents,) singly	0 5
Catechism, The Church of England Catechism, on a large sheet	0 10
Groombridge's Church Catechism; Unity and Completeness of the Church Catechism; by Rev. N. Stephenson, M. A., on 3 broad sheets.	0 40

Arithmetic. Progressive Lessons, in Numbers, forming a complete Introduction to the Knowledge of Figures, and the Signs of Arithmetic, 4 sheets

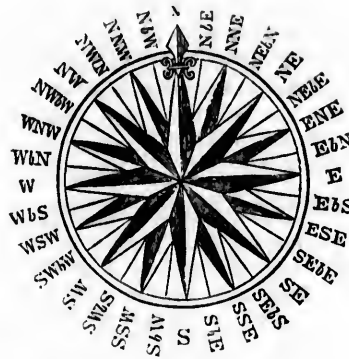
Progressive Figures, 2 sheets	0 7
The Five Tables — Notation, Addition, Subtraction, Multiplication, and Division, with an enlarged Multiplication Table, from 1 to 400, 5 sheets	0 30
Multiplication Table, extended to 400, 1 sheet	0 5
Tables of Money, 2 sheets	0 7

Grammar, explained in Verse, red and black, 27 cents. 4 sheets black ...

Affixes, Prefixes, Nouns, &c., six sheets, per set	0 45
--	------

Darton's Reading and Spelling Lessons and Prints, on sheets, as follows:—

1. Words with Scripture References, on a sheet	0 4
2. Spelling Lessons in large type,—a set of six sheets, per set	0 20
3. Alphabet of Virtues Illustrated	0 20
do. do Mounted	0 60
4. Arts and Sciences	0 4



Small sheet, illustrating the Mariner's Compass.....	0 02
Sheet Prints :	
Mechanics for Infant Schools, &c.....	0 25
The Copper Mine; a Section showing the various processes of working a Mine	0 40
Trades—representing 8 of the commonest Trades, on a sheet, colored...	0 25
The Blacksmith's shop, with the Tools used in the Trade.....	0 25
The Bookbinder's Shop, with thirteen illustrations, on a sheet, colored..	0 25
The Carpenter's Shop, with 24 illustrations, on a sheet, colored	0 25
The Ship, with drawings and descriptions of its various parts, 25 illus- trations.....	0 25
Clock Face and Hands, on a large sheet and colored.....	0 25
Standard Flags	0 25
Chinese Manners and Customs (canvas 30cts.).....	0 25
Articles used in the Kitchen, 20 colored illustrations.....	0 25
Groombridge's Catechism of Domestic Economy, to accompany this last Print	0 08
Darton's Exercises for the Improvement of the Senses, (Soc. Diff. Useful. Know.) 18mo., pp. 127, each.....	
	.38c \$4.00 p dz
Wilson's First, Second, and Third Catechism of Common Things, 24mo., pp. 70, 71, 72; Eng. Edi., &c., each.....	
	.16c 1.80 p dz
<i>See also Sheet Prints on page 66.</i>	
Christian Knowledge Society, Texts of Scripture for the Walls of Churches, Schools, Workshops, Factories, Kitchens, &c., arranged suggestively,	
Large Type, per set of 24.....	1 00
Texts of Scripture, by same Society, per set of 66.....	1 25
do do do do mounted, each.....	0 23
Select Proverbs, published in a pamphlet, by the same Society, pp. 24...	0 03
Maxims and Useful Sayings, one sheet.....	0 05
Sunday School Lessons, on six sheets, per set.....	0 04
Educational Department Sheet Lessons.	
1. The Ten Commandments.	} Per set of six..... 0 25
2. The Lord's Prayer.	
3. General Rules to be observed at School.	
4. What every child ought to be and ought not to be.	
5. Plain Directions (or Plain Instructions.)	
6. Historical Antitheses (or Scripture Text, &c.)	
Selection of Scripture Texts, in very large capitals, with mottoes, at the head of the sheets, 12 sheets, as follows.....	0 50
Price for the 18 sheets.....	0 60

*Mottoes :**Scripture Texts in large type :*

1. "The first commandment is the promise;"—Honor thy Father and thy Mother.
2. "God spake these words," Remember the Sabbath Day to keep it Holy.
3. "Let every soul be subject to the higher powers;"—Fear God, Honor the King.
4. "Forgive and ye shall be forgiven;"—Children, be ye kind one to another.
5. "A word fitly spoken, how good is it;"—A soft word turneth away wrath.
6. "They that seek me early shall find me;"—Remember now thy creator in the days of thy youth.
7. "Jesus saith," suffer little children to come unto me, and forbid them not.
8. "The word of the Lord endureth for ever;"—Hear instruction and be wise, 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 commandments.

XXVII. VOCAL MUSIC.

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

Hullah's Manual of Vocal Music, in two parts, paper	\$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	2 25
Do do stretched on frames and varnished, per doz.	12 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	0 25
Do Exercises for Cultivation of Voice Contralto or bass	0 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 00
Do do do do 8 staves per parcel of sheets	1 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	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 13

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. |

Contents of Book the Second.

13. The Sunbeam.	17. Sing for the Oak Tree.	22. The Farm Yard.
14. Harvest Field and Flowers.	18. The Poor Laborer.	23. The Apple Tree.
15. Poor Robin.	19. The First Swallow.	24. The Shepherd Boys Song.
16. The Little Sister.	20. The Father's Return	
	21. The Plough Boy.	
Sea Songs		\$0 63

XXVIII. WRITING.

Mulhauser's Manual of Writing, with 40 model Plates	0 50
Writing Model, First or Elementary set, 40 Plates mounted on card board	0 50
Do Second set; Medium, or half text hand, and the Cyphers	0 20
Do Third set; fine, or small hand, and for Punctuation, Proverbs, and Moral Science	0 20
Do Fourth set; fine or small hand, and the ciphers. List of the Sovereigns of England since the Conquest	0 20
Writing Books, ruled for Mulhauser's System, Nos. I, II, and III. No. I ruled with diagonal lines throughout; No. II, the same ruling, alternated with leaves of cross lines only; No. III, ruled for half text, per dozen	0 60
Do each	0 6
Slates ruled for the Method	0 16
National Copy Lines, per set of six assorted sheets	0 38

Fulton & Eastman's Principles of Penmanship, as follows:

I. Fulton's Chirographies, in two numbers; 3 feet 6 inches wide, by 4 feet 4 inches long, mounted on canvass and rollers, and varnished, per pair.	3 50
CHART No. 1.—Embraces Primary Exercises, and Elementary Principles in Writing, with illustrations of the correct and incorrect positions of the Scholar, &c. &c.	
CHART 2.—Embraces Elementary Principles for Capitals Combined, and Elementary Principles for Small Letters Combined.	
II.—Key to Fulton & Eastman's Chirographic Charts. Containing direc- tions for the Position at the Desk, and manner of holding the Pen— Also, for the exact forms and proportions of letters, with rules for their execution. 16mo. pp. 62, with a Steel Plate of the Charts in Miniature.	0 25
III.—Fulton's School Writing Books. Per set of four numbers	0 50
Ditto per dozen	1 25
No. 1. Designed for Young Beginners. No. 2. Designed to be used after No. 1. No. 3. Designed for Advanced Pupils. No. 4. Contains only the Parallel Lines.	

Badlam's Writing Books. The Common School Writing [Book. In five numbers Per set	0 63
Do do Per dozen	1 25

The peculiarities of this system consist in light lined letters for tracing, which require more observation than perfect or outline letters to be traced or filled; in clearly illustrating by elements, &c., the manner of making and joining all letters without lifting the pen; in the use of oblique lines, which aid in sloping letters and attaining a movement of the whole hand, *without the restraint, incident to their use as heretofore practised*; in the distinct proportions of letters secured by horizontal and oblique lines and dots; in the practical exhibition of the most common errors of learners, &c. &c.

Gould's Progressive Penmanship. Practical and ornamental, for the use of Schools, in Five Writing Books, per set	0 63
Ditto ditto per dozen	1 25

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.

Chambers' Writing—Plain, Current hand, and Ornamental—in fifteen prepared copy books. In those systems of writing which have come under the notice of the Editors, numerous formations are introduced which cannot be imitated by the pen without retouching; while, at the same time, the most difficult junctions and combinations are too frequently associated with the earlier and more simple exercises. In the present system, which aspires to some degree of originality, care has been taken to avoid every refinement of engraving inconsistent with practical penmanship; a simple yet graceful style of writing has been aimed at; and the series rendered *strictly progressive* Post size. Price, each, 0 10

Writing—Plain, and Current Hand. In ten prepared Copy Books. Foolscap size. Price, each, 0 06

Knapp & Rightmeyer's Writing books, per dozen 1 25

Maclaurin's ditto ditto per dozen, small size. 1 25

Christian Knowledge Society's Script Alphabets, two sheets. 0 07

Ditto ditto Numeral Letters, two sheets. 0 06

Darton's Sign Painters' Assistant. 0 25

Smith's Copy Slips, *etc.* (oblong 12mo.) contains:—

- | | | |
|-----------------------------------|--|--------------------------------------|
| 1. First Writing Lessons. | 5. Small Hand. | 9. Geographical running hand. |
| 2. Large Text. | 6. Large Text. Round style of writing. | 10. Commercial do. do. |
| 3. Small Text. | 7. Small Text, do. do. | 11. Receipts, Bills of Exchange, &c. |
| 4. Round Hand. | 8. Round Hand, do. do. | 20. German Text. |
| 12. Select Sentences. | 16. Ladies' running hand Part 3. | 21. Engrossing. |
| 13. Ladies' Geographical. | 17. Scripture round hand. | 22. Latin Copies |
| 14. Ladies' running hand. Part 1. | 18. Ditto ditto. | 23. School Ornamental Alphabets. |
| 15. Do. do. Part 2. | 19. Old English. | |

The foregoing per dozen. \$1 13

Singly. 0 10

24. A set of Plain and Ornamental Alphabets containing 11 various Hands. 0 30

25. The Ladies Writing Exemplar, (Edited by D. H. Edwini,) with part 3, Ladies' Running Hand Copies. 0 25

26. Astronomical Copies, (Edited by R. Mitchell,) engraved by W. Smith. 0 10

Nos. 1 to 23 and 26, assorted. Per dozen. 1 13

No. 24, per dozen. 2 75

No. 25 ditto 2 00

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Gillott's Steel School Pens, per box, (various prices.) Some at. 0 50

Pen-holders, Lead pencils, Slate Pencils and Slates, (various prices.)

Holbrook's Double Slates, No. 1, 45 cts., No. 2. 0 56

Reeves' Flexible Slates, (*See also page 104.*) No. 1, 12 cts. each, per doz. 1 20

Ditto do No. 2, 14 cts. each, per doz. 1 50

Ditto do No. 3, 17 cts. each, per doz. 1 80

Ditto do No. 4, 20 cts. each, per doz. 2 25

Ditto do No. 5, 27 cts. each, per doz. 3 00

Reeves' Bottle India Rubber per lb. 1 50

Groombridge's Ink wells, 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.

Chapman's American Drawing Book, especially adapted to the use of Schools, Academies, and Home Instruction. The Wood Engravings in these works are most exquisitely finished. They embrace every variety of example, from the simple to the highly finished specimens of drawing of the Human Figure, antique and modern, Natural Scenery, &c. &c. Am. Edi. 4to *jsr.*

The following Branches of the Art are treated separately, viz. :—

1. Primary Instruction and Rudiments of Drawing.
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.
8. The various methods of Etching, Engraving, Modelling, &c.

Drawing Book, No. I, Elementary. Quarto. Atlas form. pp. 56.....	0 50
Do do No. II, do 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 dozen.....	1 25
Do No. II, Primary and Elementary. Small pp 20, singly.....	0 13
Do per dozen.....	1 25
Drawing for Young Children; containing 150 Drawing Copies, and numerous 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. <i>cks. cspf.</i> 12mo., bound in cloth.....	0 50
Canton's Elementary Drawing Books. Complete in 6 numbers. Oblong 12mo. each. Eng. Edi. <i>vte.</i>	0 10
In these Books, the Drawing copies are lithographed.	
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., <i>jup.</i> 8vo. pp. 116.	0 60
Richardson's First Steps in Art; or Practical and Easy Graduations in Landscape Drawing, divided into Three Series. Eng. Edi. <i>tv.</i> Per set. 1 80	
FIRST SERIES.—Expressive Outline. By J. V. Richardson, Professor of Drawing, Oxford. 24 Plates.	
SECOND SERIES.—Expressive Outline, slightly shaded, 24 Plates.	
THIRD SERIES.—Select Studies, with progressive effect, 24 Plates.	

2. EXAMPLES OF OUTLINE DRAWING, AS FOLLOWS :

Raffaelle's Scripture Outlines, beautifully engraved on steel. Size. 27 inches by 21. Eng. Edi. <i>tv.</i> Per set of 9, in sheets	1 50
Raffaelle's do stitched on frames and varnished.....	3 50
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.	

List of Subjects.

- | | |
|---------------------------------|-------------------------------------|
| 1. The Expulsion from Paradise. | 6. The Passage through the Red Sea. |
| 2. Building the Ark. | 7. Moses striking the Rock. |
| 3. The Deluge. | 8. The Molten Calf |
| 4. Finding of Moses. | 9. Delivery of the Law. |
| 5. God appearing to Moses. | (See also pages 61, 66.) |

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

Familiar Objects, or white Outline Drawings, on brown ground, 2 sheets,	0 7
Ditto ditto Mounted on two cards.....	0 20
Bishop of St. Asaph's Outlines of Familiar Objects, being black Outlines on white ground (in paper cover).....	0 16
Ditto ditto Mounted.....	0 65
Taylor and Walton's Linear Drawing Copies, comprising upwards of 200 subjects on 24 sheets, mounted on thick pasteboard, in a portfolio....	1 25
Simpson's Elementary Free Hand Drawing Copies, Flat Examples, 34 figures on 12 sheets, and one containing Letter Press, mounted on canvas, without rollers, per set.....	2 100
Robinson's Manual of Elementary Outline Drawing, to be used with the Flat Examples, each, 18 cts., per dozen	2 10

3. EXAMPLES OF COLOUR DRAWING.

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

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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. Large size.....	1 50
Small Ditto ditto ditto	0 50
Robinson's Collection of Examples of Colored Ornament, beautifully and richly tinted, 12 sheets, in a paper cover, with Letter press.....	2 00
W. H's Alphabet of Color. Crown 4to. stretcher.....	0 78
Redgrave's Manual of Color, with a Catechism, each 20 cts., per dozen..	2 30
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

Sower & Barnes' Chalk Drawings, a Series of white outlines on black ground. 8 Plates.....	1 00
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4. MISCELLANEOUS DRAWING.

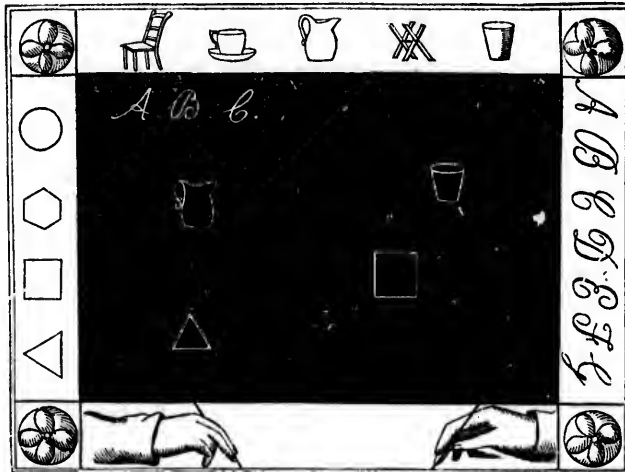
French Models in Plaster of Paris, of the hands and feet. Life Size. Beautiful models for drawing from nature, assorted, each.....	0 40
Julien's Studies; various positions of the hands and feet, &c. each, mounted	0 55
Ditto Studies of Heads, various prices.	
Ditto The Human Figure, ditto.	
Carl Kopper's Drawing Book of Flowers, in paper cases. Eng. Edi. etc..	0 25
Bolton's Drawing from Objects. 8vo. Eng. Edi. 93 pp. 130.....	1 50
Dibdin's Practical Drawing Book, 24 plates. Plain oblong; 4to.....	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

NET CASH PRICE.

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, Geometrical, Curvilinear, Elizabethan, and other styles 0 25
 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 Balusters, &c. 0 25
 3. Condensing Beam Steam Engine, in Section, End-elevation and Plan. The dimensions of each part carefully calculated and drawn to scale. Size of each Sheet, 25 by 20 inches, with descriptive reference. On a sheet, 25 cts., mounted 0 50
 4. Examples of Ornamental Drawing ; being Suggestions for Manufacturing and Decorative Designs. In sheets, each 0 06
 5. Working Drawings and Designs of Steam Engines. Plates and Letter-press. Example No. I. Horizontal Highpressure Engine 0 25
 6. Illustrations of Machine and Mill Gearing. Plates and Descriptive 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 scale 0 25
- Holbrook's Drawing ; Child's First Book.** 12mo., square. Each, Sets. per dozen 0 75

5. DRAWING MATERIALS.



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 X 7 inches. | Per dozen | 4 00 |
| Do do do | Singly | 0 38 |
| No. 2, 6 X 9 do | Per dozen | 5 00 |
| Do do do | Singly | 0 50 |

(For other Slates &c., See Writing Page 101.)

- Parker's Box of Drawing Materials, containing Chalk-holder, Leather and Paper Stumps, Prepared Charcoal, Chamois Leather, and six Crayons, per box. 0 68**
- Ditto best French Crayons, black and white, per box. 0 16**

	NET CASH PRICE.
Reeves & Sons Box of Drawing Materials, in mahogany box.....	0 70
Ditto Academy Chalks, black, white and red, in mahogany box..	0 18
Reeves & Sons Carbon.....	0 40
Ditto Brass Port Crayon, each Sets. Per dozen	0 80
Ditto Sketch Book. Imperial 4to. Various colors.....	0 63
Ide & Dutton's Coloured Chalk Crayon's for blackboards, in box of 12 doz.	1 63
Do do do do white.....	0 55
Groombridge's substitute for a blackboard. No. 1 Size, 24 inches by 36	1 50
do do do do No. 2 " 30 " by 36..	1 88
do do do do No. 3 " 30 " by 42..	2 10
Department of Science and Art , Drawing Materials, in a box.....	0 63
Do Port Crayons, each 6 cents. Per dozen....	0 60
Do 14 inch Compasses for blackboard	0 80
Do Slip, Two Set Squares, and T Square. Per set.....	1 50
Do Black Canvas Strained on frame, 22 inches by 17	0 50
Negretti & Zambra's Pautographs in wood, for copying and reducing plans, drawings, or maps in any required proportion (Nos. 860 to 865.)	
6 inches long.....	2 10
8 "	2 75
10 "	3 25
12 "	4 25
16 "	4 80
18 "	6 25

6. DRAWING INSTRUMENTS.

Department of Science and Art Mathematical Instruments.

Crommire's Case of Mathematical Instruments, containing 12 inch Rule, set Square, pair of 6 inch compasses, pen and pencil legs.....	75
do containing pair of 6 inch compasses, pen and pencil legs, bow pen 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 <i>hcb.</i> Price.....	0 80
Negretti & Zambra's Drawing Instruments: A set of Drawing 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 moveable leg, with pen and pencil-holder to fit; bow pencil holder; bow pen, with double joint and spring; ruling pen in ebony handle; turnserew; 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 divided; in mahogany case.....	\$12 60
Ditto: A set of Drawing Instruments, (No. 875,) consisting of a pair of 3 $\frac{3}{4}$ -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 6 $\frac{1}{2}$ -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 leg; horn protractor; jointed pen and pencil-holders; lengthening bar; ruling pen, with ebony handle and protracting point; turnserew, crayon-holder, and divided boxwood scale.....	3 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;	

	NET CASH PRICE.
jointed pen and pencil-holder, lengthening bar, crayon-holder, horn protractor, turnerscrew, and divided boxwood scale; in a neat pocket case.....	3 75
Negretti & Zambra's : A set of Drawing Instruments, (No. 878,) consisting of a pair of 5½ inch. steel-pointed, brass-jointed compasses, with one moveable leg; jointed pen and pencil point, crayon-holder, turnerscrew, horn protractor, and divided boxwood scale: in a neat pocket case.....	2 50

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

7. DRAWING PAPER AND PENCILS.

Reeves' Drawing Paper, best demy, hot pressed, white, per dozen sheets	0 30
Do do do medium do	0 50
Do do do do do	0 90
Do Harding's Imperial, per dozen	1 20
Parker's Coloured Drawing Paper, the best, per dozen sheets—dark....	0 25
Do do do second quality, do do —light.....	0 20
Reeves' Graduated Tinted Drawing Paper, square. Per dozen sheets..	0 90
Do Imperial 4to. Serape tints paper do do	0 63
Do do do paper boards do do	0 70
Do Turnbull's Royal, 2 sheet Bristol boards.....	1 75
Do do do 3 do mounting boards	1 50
Do do do 3 do crayon boards.....	2 75

Drawing Pencils, etc.

Reeves' Juvenile or Elementary Drawing Pencils, in a paper case. Per case.....	0 13
Do Prepared Drawing Pencils, per dozen	0 63
Do Best do do for artists, per dozen.....	1 25
Wolf's Calagraphic do	0 63

And others at various prices.

(See also India Rubber, &c Page 101.)

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(Omitted on pages 63, 64.)

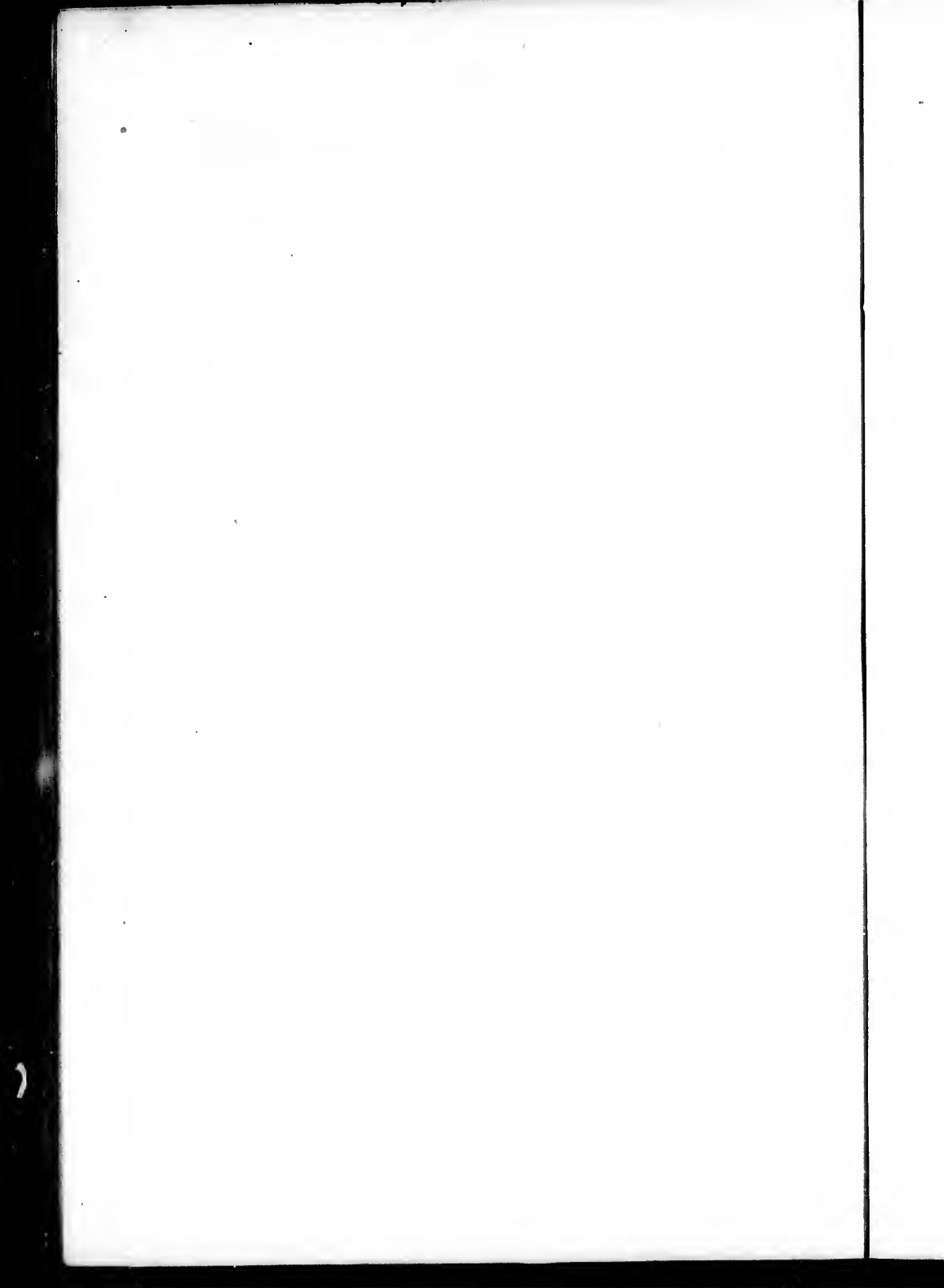
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ERRATUM.

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



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