DESCRIPTIVE CATALOGUE

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

For Zale at the Educational Depository,

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PUBLIC SCHOOLS

IN UPPER CANADA.



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

1856.

PREFATORY NOTE.

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

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

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

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

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

DEPARTMENTAL NOTICE.

To Municipal and School Corporations. SCHOOL MAPS AND APPARATUS.

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

* The form of Application should be as follows :

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

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

To the Chief Superintendent of Education, Toronto.

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

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DESCRIPTIVE CATALOGUE

OF THE

MAPS, CHARTS, GLOBES,

APPARATUS, BOOKS, &c.

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

I. IRISH NATIONAL MAPS. (a)

1. MODERN GEOGRAPHY.

Canvas, Rollers, Colored and Varnished.

NET CASH

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

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

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

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

2. ANCIENT AND SCRIPTURE GEOGRAPHY.

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

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

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

1. LARGE SCHOOL ROOM MAPS, (e)

Canvas, Rollers, Colored and Varnished.

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

2. SMALL SCHOOL MAPS.

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

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

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

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

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

3. MODERN GEOGRAPHY.

Cloth, Rollers, Colored and Varnished.

NET CASH

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

4. CLASSICAL AND SCRIPTURE GEOGRAPHY.

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

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

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

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

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

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

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

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

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

1. MODERN GEOGRAPHY.

Canvas, Rollers, Colored and Varnished.

NET GASH

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

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

44

"

"

2. ANCIENT AND SCRIPTURE GEOGRAPHY.

Cloth, Rollers, Colored and Varnished.

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

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

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

V. VARTY'S MAPS. (l)

1. SCHOOL ROOM MAPS.

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

2. COMBINATION MAPS. (m)

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

Map of the World, Mercator, with Outline Hemi-

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

3. FULL MAPS. (n)

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

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

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

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

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

4. PHYSICAL MAPS.

SIZE OF MAP.

NET CASH PRICE. \$ cts.

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

5. SCRIPTURE GEOGRAPHICAL MAPS.

Canvas, Rollers and Color	ed.					
Palmer's Map of Palestine and the adjacent coun-						
tries, shewing their Ancient and Modern						
Geography, with the routes of various						
Travellers traced thereon, beautifully en	~	o 1				
graved	2:	3 1	y s	: 4	••••	2 90
Archdeacon Wigram's Outline Map of Palestine, ex-						
hibiting the situation of the principal	1.	01				1 00
places mentioned in the Bible Journeyings of the Children of Israel, (very full)	0.	01	y 2 		••••	1 95
The Land of Canaan divided among the Twelve	2.	9 L	y 2		••••	1 20
Tribes, beautifully engraved	1.	9 h	v 2	. 0		1 50
The Land of Judea, or Palestine in the time of Our	• •	• •	5 -	• -		
Saviour, beautifully engraved		dif	to		· · · ·	1 50
St. Paul's Voyages and Travels						
Initiatory Map Chart of the Acts of the Apostles (0)	2:	6 b	ÿ 2	: 6		1 75
Combination Map of the Land of Promise, illustra-						
ting Old Testament History	3:	3 t	y 2	: 3	• • • •	2 00
Combination Map of Palestine, illustrating New Tes-		•••				
tament History		dit	to	•	• • • •	2 00
Combination Map of Roman Palestine	8 :	9 b	y 2	: 9	••••	2 00
Physical Map of Palestine						1 00

VI. WHYTE'S MAPS. (p)

(Scottish School Book Association.) Cloth, Rollers and Colored.

: 2 by 4 : 6	8 75
ditto	3 75
: 0 by 2 : 5	1 50
ditto	1 50
	: 2 by 4 : 6 ditto : 0 by 2 : 5 ditto

III. Map of the Earth in hemispheres, without the lines of latitude and longitude or any names of places. This novel and beautiful representation of the Globe is very striking, exhibiting its various physical features, the mountain ranges, plains, steppes, prairies, deserts, valleys, oceans, seas, lakes, rivers, continents, islands, dc., clearly showing the distribution of land and water.

IV. A large Physical Map of Europe, exhibiting its physical features, comprehending its mountain ranges, table lands, plains, steppes, valleys, seas, rivers, &c.: also lines denoting the Polar Limit of the growth of the principal vegetable productions, &c.

(o) This Initiatory Chart exhibits the gradual development of the Gospel Scheme, from the Ascension of Our Lord into heaven, A. D. 30, to the time of St. Paul's imprisonment and release.

(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,

			NET CASH
		SIZE OF MAP.	PRICE.
			\$ cts.
Map of	Africa	3:0 by 2:5	1 50
и Т	North America	ditto	1 50
"	South America	ditto	···· 1 50
"	United States	ditto ,	1 50
**	England	ditto	1 50
**	Ireland		1 50
"	Scotland	ditto	1 50
"	Hindostan	ditto	1 50
"	Palestine	ditto	1 50

VII. PELTON'S OUTLINE MAPS, WITH KEY. (q)

Map of	the Western Hemisphere	7 :	0 by 7 : 0	5	00
<i>с</i> т	Eastern Hemisphere		ditto	5	00
"	Two Hemispheres, with Key		ditto	10	00
"	Europe	6:	6 by 6 : 10	3	50
"	Asia		ditto	3	50
"	South America and Africa		ditto	3	50
"	United States		ditto	3	50
The ent	ire Series, with a Kev			20	00

VIII. FRENCH EMBOSSED MAPS. (r)

On Boards.

Map of	Europe	1 :	10 by 2 : 5	3 50
	Asia		ditto	3 50
"	Africa		ditto	3 50
"	North America		ditto	
"	South America		ditto	
66	Europe	2:	2 by 1 : 9	5 50
"	Spain and Portugal		ditto	5 50
4.	France and Belgium	2:	2 by 2 : 0	6 00
••	Italy		ditto	6 00
"	Germany and Holland			6 00
"	The British Isles			6 00
"	North America			6 00
<i>6</i> c	Russia			6 00
**	Ottoman Empire		ditto	6 00
"	Switzerland	2 :	2 bfy 1 : 8	8 50

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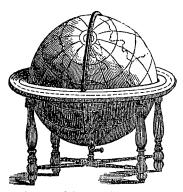
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National	e List.)	Page 10.
Johnston's	(do.)	Page 11.
	(do.)	Page 12.
	(do.)	Page 14.
See also Scripture Charls and Il	lustration	is, pages 26-28.

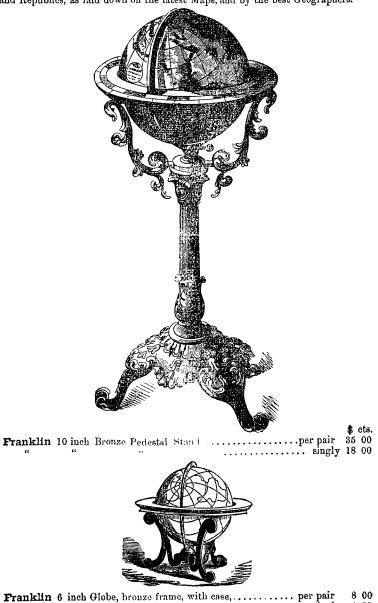
XI. GLOBES.*





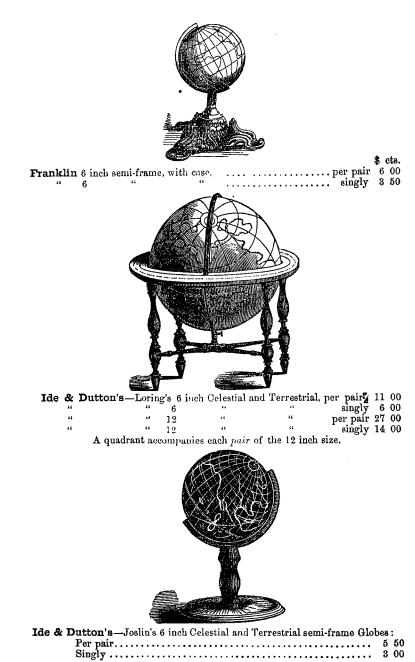
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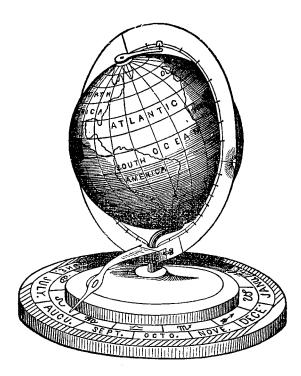
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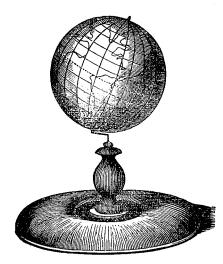


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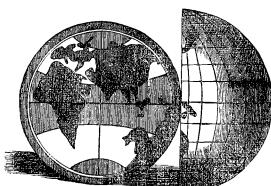
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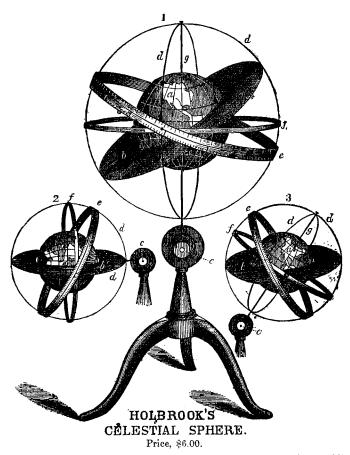


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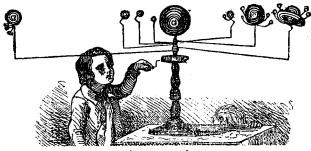
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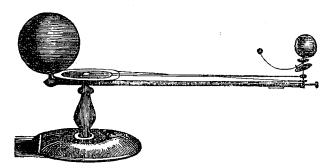
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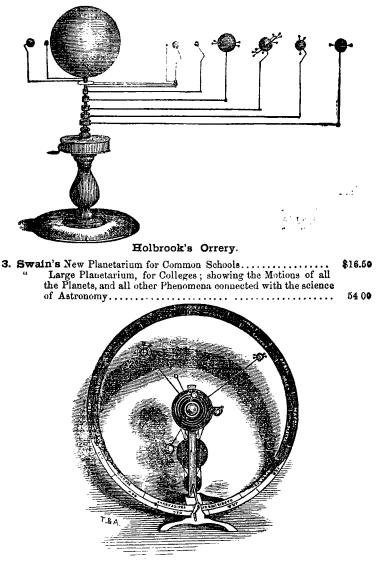
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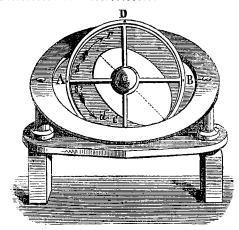


Fig. 1. Illustration of the change of Seasons.

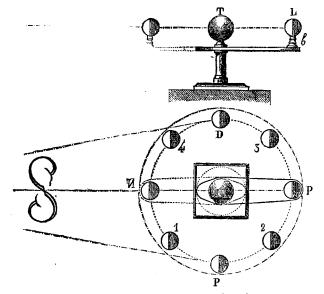


Fig. 2. Phases of the Moon-Figure, and section of figure.

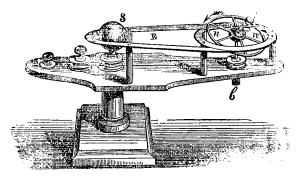


Fig. 3. Eclipses.

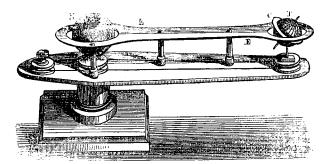


Fig. 4. Precession of the Equinoxes.

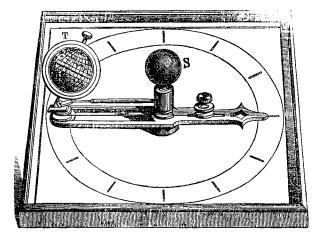


Fig. 5. Double movement of the Earth.

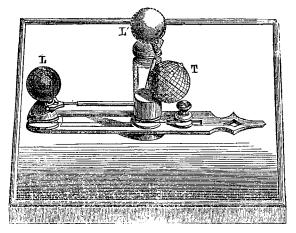


Fig. 6. Phases of the Moon.

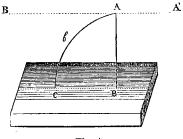


Fig. 7. a.

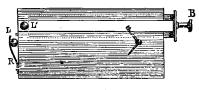




Fig. 7. Apparatus to illustrate the fall of Bodies.

8 and 9. Illustrations of Gyratory Movement.

10. Apparent Movement of the Planets.

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3. The Camel.	11. The Locust.	19.
4. The Ass.	12. The Quail.	20.
5. The Wolf.	13.	21.
6. The Rhinoceros.	14.	22.
7. The Hippotamus.	15.	23.
8. The Crocodile.	16.	24.

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(2.) Christian Knowledge Society's Natural History, &c., Object Lessons.

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List of Subjects.

 The Shepherd's Dog. The Sparrow. The Hare. The Sheep. The Duck. The Swan. The Ass. 	9. The Horse. 10. The Cat. 11. The Cow. 12. The Mole. 13. The Fig. 14. The Tiger. 15. Fish. 16. The Map.	17. The Lion. 18. The Owl. 19. 20. 21. 22. 23. 94
8. Trees.	16. The Hen.	24.

(3.) American Sunday School Union, Natural History, Object Lessons.

Lithographic Prints of Animals; or a series of engravings on stone, accurately drawn from the living objects, and preserving the relative size of the animals. Each print is accompanied with a lesson, covering both sides of the card, various sizes; with letter press descriptions, in large type, per set, mounted on card \$1.25 cts.

	List of Subjects.	
1. The Lion. 2. The Dog. 3. The Beaver.	4. The Camel. 5. The Buffalo. 6. The Horse.	7. The Eagle.

3. PATTERSON'S ZOOLOGICAL DIAGRAMS.

(Ten beautifully coloured plates)

Prepared for the Department of Science and Art, London. The figures do not exhibit the Comparative sizes of the Animals represented. The Classification is that adopted in Patterson's "Zoology for Schools." See page 43.

Patterson's "Zoology for Schools" commence with the Invertebrate. See Sheet K; those animals which are of the lowest grade, (many of them being so minute as to be known to us only by means of the microscope) being considered by him as an introduction to the study of the higher order of animals, thus passing from grade to grade, until we reach those individuals whose structure is the most complicated and whose senses are the most delicate.

Each 3 feet 3 inches by 2 feet 6 inches, canvass, rollers, and varnished. Price of the 10..... \$20

List of Subjects.

Vertebrate Animals.

Class Mammalia-Eleven Orders.

	Orass mannatta	0000 010	
(Order	Bimana,	Fig. 1.	Man.
	Quadrumana,	2.	Spider Monkey.
Sheet A. \langle	Cheiroptera,		Long-eared Bat.
(Insectivora,		Hedge-hog.
l	Carnivora,	5.	Tiger.
,	Cetacea,	1.	Common Porpoise.
	Pachydermata,	2.	Hippopotamus.
Sheet B. $\left\{ \right\}$	Ruminantia,	3.	Red Deer.
Sheet D. Y	Edentata,	4.	Sloth.
Ì	Rodentia,		Squirrel.
l	Marsupiata,	6.	Red Kangaroo.
	Class AvesFive	e Order	8.
(Order	Raptores, illustrated by	Fig. 1.	Peregrine Falcon.
	Insessores,	2.	Magpie.
Sheet C. {	Rasores,		Silver Pheasant.
	Grallatores.	4	. Heron.
į	Natatores,	5	. Wild Duck.

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	Class Reptilia.—F	Pour Ordono								
	-									
1	Order Testudinata, illustrated by									
Sheet D. {	Sauria,	2. Lizard.								
	Ophidia,	3. Boa.								
l	Amphibia,	4. Common Frog.								
	Class Pisces.—Nine Orders.									
ſ	(Order Acanthopterygii, Fig. 1. Perch.									
ĺ	Malacopterygii Abdominal	es, 2. Salmon.								
	Ditto Sub-brachial	es, 3. Turbot.								
1	Malacopterygii Abdominal Ditto Sub-brachial Ditto Apodes,	4. Sharp-nosed Eel.								
Sheet E.	Lophobranchii,	б. Pipe-fish.								
~~~~ <u>}</u>	Plectognathi,	6. Globe fish.								
	Sturiones,	7. Sturgeon.								
	Plagiostomi,	8. Thornback Ray.								
	a	9. Dog-fish.								
l	Cyclostomi,	10. River Lamprey.								
	Inveterate A									
	Sub-Kingdom Mollusce	a.—Six Classes.								
ſ	Class I. Cephalopoda,	Fig. 1. Paper Nautilus.								
Ì	/	2. Pearly Nautilus.								
		3. Cuttle-fish.								
i		3a. Bone of same.								
1		4. Calamary, or Squid.								
		4a. Bone of ditto.								
ļ	II. Gasteropoda,	5. Whelk, or "Buckie."								
		6. Top-shell.								
		7. Vermetus. 8. Ear-shell.								
}		9. Slug.								
		10. Bubble-shell.								
ľ		11. Animal of the Common								
Sheet F.		Limpet.								
		11a. Shell of ditto.								
		12. Eolis, or Sea Slug.								
i	III. Pteropoda,	13. Clio.								
	IV. Lamellibranchiata,	14. Mya. 15. Prickly Cockle.								
		15. Prickly Cockle.								
		16. Large Scallop, or "Clam."								
	V. Brachiopoda,	17. Terebratula.								
		17a. Lateral view of same, ex-								
		hibiting one of the								
		fringed arms, as if seen								
	VI. Tunicata,	through the shell. 18. Botryllus.								
	VI. Iunicata,	19. Ascidia.								
	Sub-Kingdom Articulata.—Clas									
	Class Arachidna.									
Į	Glass Arachiuna.	Fig. 1. Spider. 2. Scorpion.								
	Insecta.	2. 500 prom								
	Order Coleoptera.	3. Sacred Beetle.								
		4. Stag Beetle.								
	Orthoptera.	5. Locust.								
Sheet G.	} -	6. Grasshopper.								
	1	7. Walking-leaf.								
1	Neuroptera,	8. Dragon-fly.								
ĺ	Hymenoptera,	9. Humble Bee.								
		10. Ichneumon.								
	<b>G</b>	11. Brown Ant.								
	[ Strepsiptera,	12. Stylops.								
		ť								

	00	
	Order Lepidoptera,	Fig. 1. Bee Hawk-moth.
	Order Depluoptera,	2. Caterpillar.
		2a. Cocoon, with the Chrysa-
		lis of Emperor moth.
		3. Emperor Moth.
	1	4a. Common Blue Butterfly
		on wing.
		4b. Ditto ditto at rest
	Hemiptera,	5. Water Scorpion.
Sheet H.	, , ,	6. Tree Bug.
		7. Male Aphis.
		7a. Female Aphis.
	Diptera,	8. Gnat.
	Diptera	9. Gad-fly.
	Antono	10. Flea.
	Aptera,	
		11. Louse (of the Pigeon.)
		12. Spring-tail.
	l	13. Scolopendra.
	Sub-Kingdom Articulata.	.—Three Classes.
	(Class I. Crustacea,	Fig. 1. Abhorescent Water-flea.
	· ·	2. Notodelphys.
		3. Anomalocera.
		4. Cyclops.
	1	5. Shore Crab.
		6. Hermit Crab.
Sheet I.	}	
Sheet 1.		7. Lobster.
	II. Cirrep eda.	8. Acorn Shell. 9. Barnacle.
		9. Barnacle.
	III. Annellata.	10. Serpula.
		11. Horse-leech.
	1	12. Earth-worm.
	l	13. White Lug-worm.
	Sub-Kingdom Radiata.	13. White Lug-worm. Six Classes.
	Sub-Kingdom Radiata. (Class I. Radiata.	Six Classes.
	Sub-Kingdom Radiata. Class I. Radiata,	Six Classes. Fig. 1. Purple, or Boring Sea-
		.—Six Classes. Fig. 1. Purple, or Boring Sea- urchin.
		.—Six Classes. Fig. 1. Purple, or Boring Sea- urchin. 2. Shell of a Sea-urchin.
		.—Six Classes. Fig. 1. Purple, or Boring Sea- urchin. 2. Shell of a Sea-urchin. 3. Star-fish.
		<ul> <li>Six Classes.</li> <li>Fig. 1. Purple, or Boring Seaurchin.</li> <li>2. Shell of a Sea-urchin.</li> <li>3. Star-fish.</li> <li>4. Jelly-fish.</li> </ul>
		<ul> <li>Six Classes.</li> <li>Fig. 1. Purple, or Boring Seaurchin.</li> <li>2. Shell of a Seaurchin.</li> <li>3. Star-fish.</li> <li>4. Jelly-fish.</li> <li>5. Shaull Jelly-fish; one of</li> </ul>
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	(Class I. Radiata,	<ul> <li>Six Classes.</li> <li>Fig. 1. Purple, or Boring Sea- urchin.</li> <li>2. Shell of a Sea-urchin.</li> <li>3. Star-fish.</li> <li>4. Jelly-fish.</li> <li>5. Shall Jelly-fish; one of the naked-eyed Me- dusæ.</li> <li>6 Cydippe, or Beræ.</li> <li>7. Sea Fir.</li> <li>7a. Portion of the same mag.,</li> </ul>
	(Class I. Radiata,	<ul> <li>Six Classes.</li> <li>Fig. 1. Purple, or Boring Sea- urchin.</li> <li>2. Shell of a Sea-urchin.</li> <li>3. Star-fish.</li> <li>4. Jelly-fish.</li> <li>5. Shall Jelly-fish; one of the naked-eyed Me- dusæ.</li> <li>6. Cydippe, or Berœ.</li> <li>7. Sea Fir.</li> <li>7a. Portion of the same mag., 50 diam, showing the</li> </ul>
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Sheet K.	Class I. Radiata, II. Zoophyta. III. Entozoa, IV. Infusoria,	<ul> <li>Six Classes.</li> <li>Fig. 1. Purple, or Boring Sea- urchin.</li> <li>2. Shell of a Sea-urchin.</li> <li>3. Star-fish.</li> <li>4. Jelly-fish.</li> <li>5. Snaull Jelly-fish ; one of the naked-eyed Me- dusze.</li> <li>6 Cydippe, or Berce.</li> <li>7. Sea Fir.</li> <li>7a. Portion of the same mag., 50 diam, showing the cells and expanded Zoophytes.</li> <li>8. Sea Anemone.</li> <li>10. Ditto.</li> <li>11. Sea Mat.</li> <li>11a. Portion of the same mag, 100 diam, or 100 by 100; showing the quidcunical arrangement of the cells.</li> <li>12. Tape Worm.</li> <li>13. Cystoid Worm.</li> <li>14. Vorticella,</li> <li>16. Bursaria Cucas.</li> </ul>
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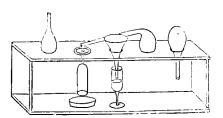
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e r Eng	glish manufac	ture		•••••	•••••	• • • • • • •	•••••	
2. Eval	orating Furn	ace with ha		••••• ••••	• • • • • •	•••••	• • • • • • • • • • • •	75
	ustion Furna		oved by	Stenno	use	•••••	• • • • • • • • • • •	1 40
4. Glass	<b>Tubes and S</b> Combustion	ypnous. Tuluu aad						20
	Bent Chlori							
	Bent Conne							
4	Suction Tul	es each	, caca		••••••			10
5. Gas	j Suction Tul bottle, with	iet, for Phil	losonical	candle.	with	rlass tul	e. for exhib	it-
ing	the sound pi	oduced by	the flam	e				. 40
6. Plai	n Syphons, ea	1ch						10
7. Gas	bags vulcania	sed, each						2 00
8. Bra	ss Stop Cock	s						90
9. Glas	ss appåratus t	o collect w	ater pro-	duced b	y bur	oing hyd	lrogen gas.	80
10. Sph	erical ballons	for gas.	Various 6	sizes, fr	om 35	cents to		. 150
11. Str	aight and ben	t glass pipe	ettes, eac	h			• • • • • • • • • •	. 10
† 12. Cen	tigrade Test ?	l'ubes, or A	lcalimet	res, eac	eh, wit			
	d ditto			••••••	••••,•••	•••••		1 70
13. A I	6 feet measur	e divided i	nto 5ths.	, with	mahog	any 100	t	2 00
14. GIa	ss Funnels wi	th stop coc	ks, each	Irom 🏷	1.20 te		• • • • • • • • • • •	2 00
10. (†18 10. Eur	ss Funnels, as	sorted size	s, per ac	zen	• • • • • •	•••••	• • • • • • • • • • •	40
10. Fut	nnel holders, d ling flasks, Ge	covers, ac.,	blown	Tous pr.	ices.			
18 Bo	ind Tin Plate	Stille one	gallon y	variou vith doi	s price	s. d block	tin compont:	
10. 100	e, and worm	tube	ganon, v		пс, ап	u DIOCK	an serpenu	4 00
19 Che	emical balance	s with weight	rhts in π	nahagar	w how	See 9	lso pare 74	1 00
	ni porcelain n						noo page 11	
	rmometer for					**		
oo Ch	migal Labels	5 00 agah 1	No 1 en	ooll 10		o. 2, lar	ge 35 cts.	
23. Rit	chie's Lamp &	Stands. )		70		,		
24. Rit	chie's Test Tu	bes. 5'?	ee hage	19.				

24. Ritchie's Test Tubes. 5¹⁰⁰⁰ page 15. Negretti & Zambra's Chemical Laboratories and other Apparatus, &c.

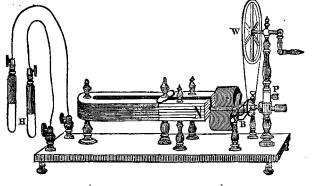
-

# MISCELLANEOUS.

Tegetmeier's School Tablets, in three Sheets ; viz., (1) Specific Gravities, 30	
in by 20 (2) Temperatures, 30 in by 20 (3) Diagrams of Thormome	
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. jwp. Price per packet	75
Rose's Chemical Tables, 8vo. cloth, pp. 69, Am. Edi., lbc	63

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, rgc...... 20

NET CASH PRICE.



(MAGNETO-ELECTRIC MACHINE.)

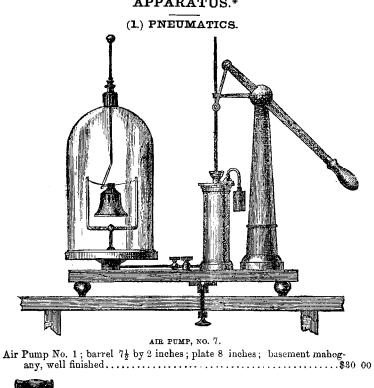
# XXIV. NATURAL PHILOSOPHY.

# 1. DIAGRAMS.

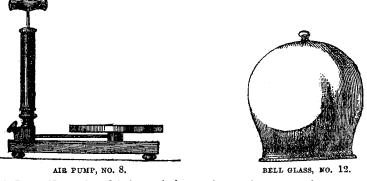
W. and A. K. Johnston's Illustrations of Natural Phi-	
Ft.)/n losophy, Sheet No. 1, Properties of Bodies, 37 Diagrams.	
No. 2. Mechanical Powers, 47 Diagrams. No. 3. Hydrosta-	
tics, 28 Diagrams. No. 4. Hydraulics, 35 Diagrams. No. 5.	
B Human Anatomy and Physiology, 27 Diagrams. The Illus-	
trations are carefully drawn and colored after Nature, and	
the Series include the most interesting phenomena of Gen-	
eral 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	
W Ditto, ditto singly 2	38
Minais' Diagrams. (See page 72.)	
Dr. F. G. Johnson's Philosophical Charts, A Series of ten large	
charts, relating to various branches of Natural Philosophy, with key15	50
Darton's Illustrations of Mechanical Powers, in a series of 8 coloured Plates.	
	25
Per set, in sheets and wrapper1 Ditto, the eight at one view, Canvas and Rollers,2	25
Darton's Mechanics for Infant Schools, coloured, 10 illustrations on a sheet,	33
2. WALTON & MABERLY'S DIAGRAMS AND EDUCATION.	AL
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
Apparatus for Cohesion, Capillary Attraction, Electric and Magnetic Attrac-
tion, Impenetrability and Inertia; with descriptions and Diagrams, See
illustrations on page 86. Price in a box 6 00

NET CASH PRICE. 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... .... 275 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)..... 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  $11\frac{1}{2}$ 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, Geometrical Solids. The five regular Solids .- 1. Tetrahedron ; 2. Octahedron; 3. Icosahedron; 4. Hexahedron; 5. Pentagonal Dodecahedron: An Instrument for Teaching Geometry; convertible into a Theodolite, Spirit Level, Hudley'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 Minais' 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. Compo-sition 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 E. S. Ritchie's Apparatus, page 73; Ide & Dutton's Apparatus, page 90; and Holbrook's Apparatus, page 91.)



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



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



HEMISPHERE CUPS, NOS. 32-34.

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



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 

### 2. ELECTRICITY. (See page 55.)

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

Electrical Machine; plate 24 inches, prime conductor 18 by 4 inches, nega-

tive 41 inches, rubbers 8 by 11 inches; basement like the foregoing No. 7.\$60 00 Electrical Machine; plate 20 inches, prime conductor 16 by 31 inches, nega-

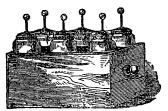
tive 4 inches, rubbers  $6\frac{1}{2}$  by  $1\frac{1}{2}$  inches; base like the foregoing No. 8.\$30 00.

,



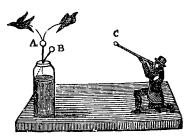
LUMINOUS LEYDEN JAR, NO. 15.

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

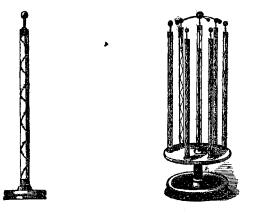


ELECTRIC SPORTSMAN AND BIRDS, NO. 17.

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



INSULATING STAND, NO. 19.



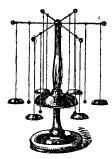
SPIRAL SPOTTED TUBES, NOS. 22 AND 23.

- 1. Spiral Spotted Tube and Stand; No. 22, two feet, \$3; three feet ... 3 60

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



ELECTRICAL DISCHARGER, NO. 28.



SIX BELLS, NO. 34.

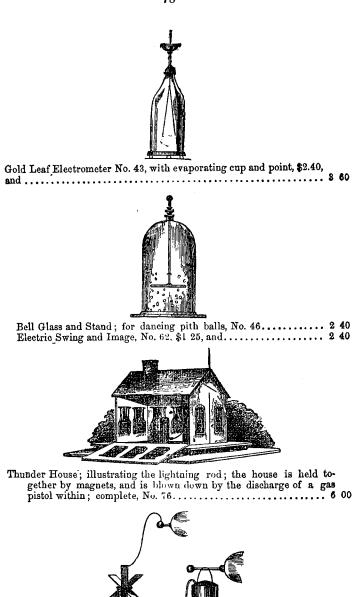
Set of Five Bells; on insulated stand handsomely mounted, No. 33.\$8 40



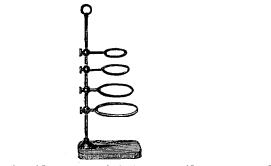
LEYDEN JAR AND BELLS, NO. 35.

Levden 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. 89	1 80
Dancing Images; of pith, painted, per pair No. 40	0 60

77



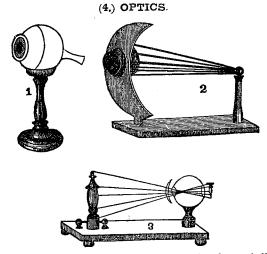
(3.) CHEMISTRY. (See page 67.) Electric Float; wheel and point, No. 78, \$1 25 and...... 1 80

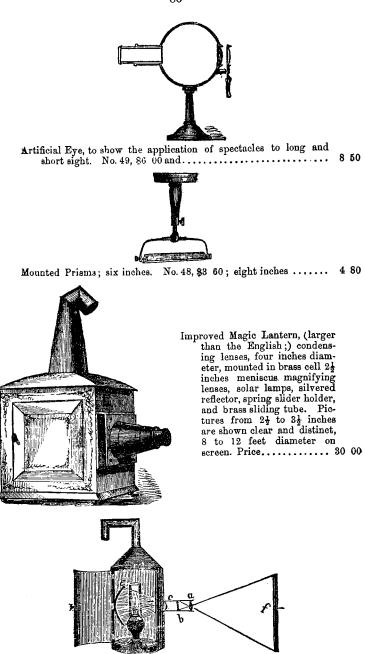


Lamp Stand, with four bows and binding screws, No. 20...... 40



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





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

Griffin's Magic astronomical	Lantern wi	ith a argand	reflector,	and a complete	set of		
astronomical	diagrams; a	accompanied v	with a desc	riptive book	1	5	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	<b>22</b>	00
Views of Public Buildings &c		





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



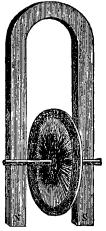
(5.) STEAM.

### (6.) MAGNETISM.

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

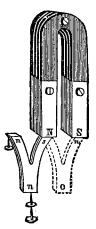


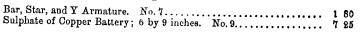
Pair Bar Magnets and Armature; in Box 10 inches. No. 1...... 3 60



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

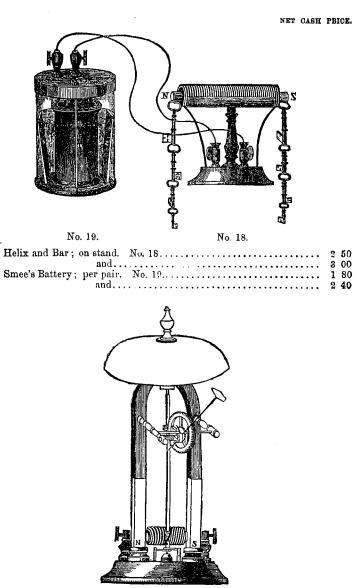
Wheel Armature; revolves on U magnet; No. 6, 60 cents and .... 0 90



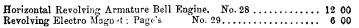


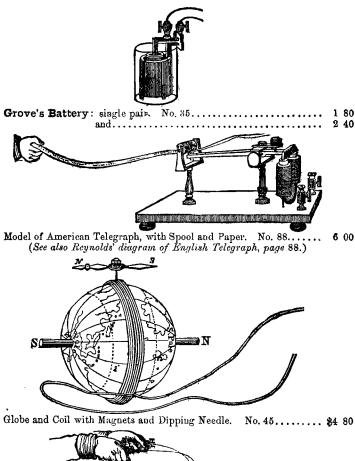


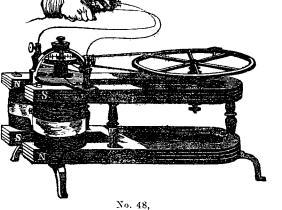
Dipping Needle; brass stand. No. 15..... 1 25

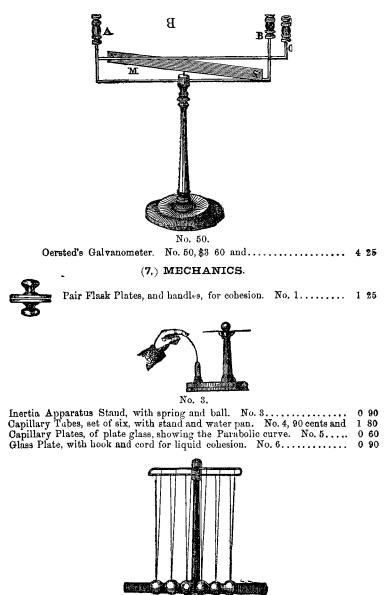


No. 28.



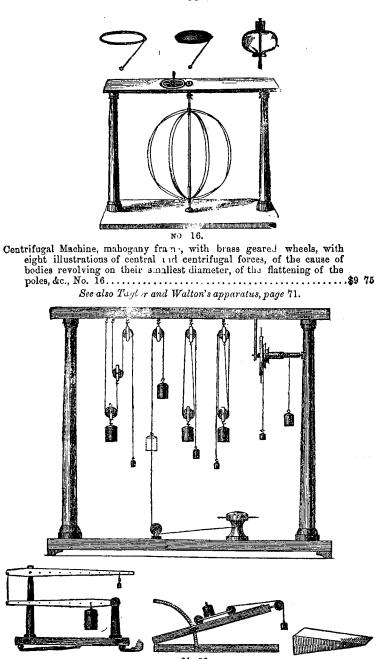






Nos. 12 and 13. Collision Balls, the same, with six 14 inch lignum vitæ balls. No. 12 4 80 Collision Balls, mahogany stand, six 14 inch balls, single cord. No. 13 3 60

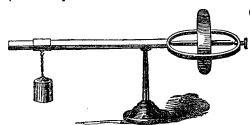
85



86

NO. 21, 23.

(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;

NET CASH PRICE.



Illustration of La Place's Theory. This instrument as improved by Dr. A. Means, is a glas-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.

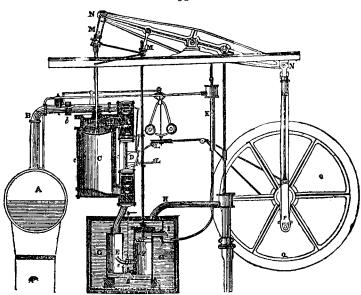
#### (1.) Apparatus.

1.	Exhausting and condensing Syringe, for use in drying bodies in vacuo\$3	00
2.	Exhausting Syringe 2	00
3.	Brass Stop Cocks for ditto	90
4.	Kreidl's Hydrostatic Blowpipe, of glass, Woulffs' bottle of 6 pints, with	
	tube complete $\ldots 2$	50
б.	Blowpipe jet, with universal joint, 2	00
6.	Blowpipe lamps, and supports, anvils, hammers, &c., &c., various prices.	

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

#### (2.) Griffin's Mechanical Diagrams.

Gas Works abo	ut 6 ft. d	v 3 ft. finelv	coloured.	on canvas and rollers\$1 38	
Glass House ab	out 4 ft.	by 3 ft. fine	ly coloured	, on canvass and rollers 1 00	
Iron furnace ab	out 1 ft.	by 3 ft., find	eľv coloure	d. on canvas and rollers 55	
Gas Works as a	bove mo	unted, on lin	en without	rollers 1 20	
Glass House	do	do	do	80	
Iron furnace	do	do	do	40	



5. MISCELLANEOUS. (1.) Steam Engines, &c.

Reynolds' Mechanical Diagrams. A series of boldly executed Diagrams illustrating the most important Machines and Manufactures. The size of each Diagram is three feet by two feet, appropriately coloured, with brief description at the foot. Singly \$1.50 each; on rollers, varnished \$1.38 each, per set. The following are already published :

> Condensing Steam Engine, High Pressure Engine, Locomotive Engine, Marine Engines, Oscillating,

Paper Making Machine, Printing Machine, Manufacture of Gas, Electric Telegraph.

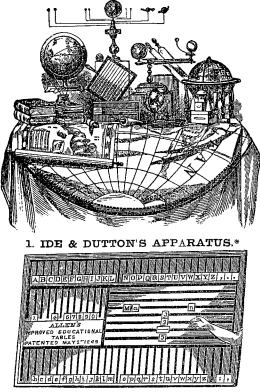
Others are in preparation.

Reynolds' Steam Engines, Historical and Descriptive account of the		
Steam Engine-Designed to convey a popular idea of its principle and		
mode of action. A Companion to Reynolds' Large Diagrams of the		
Condensing and Locomotive Engines, 8vo., paper, pp. 8. With Rey-		
nolds' Diagrams of the Condensing and Locomotive Steam Engines,		
mounted on canvas and coloured. Enclosed in a portfolio, cloth, jr.		
Price for the two	2	10
Reynolds' Steam Engine and Boiler, Showing clearly the working parts of each; on a sheet, coloured, and folded in wrapper, with Popu-		
lar Description	0	20
Reynold's Section of a Steam Frigate, On the Paddle-Wheel princi- ple, showing the internal arrangements, with a view of the most im- proved form of Marine Engine. Drawn by A. W. Morant, C.E. Same size as the preceding print, to which it is designed as a companion. In		
wrapper	0	20
(See also pages 72 and 81.)		

88

The Land for Change The star	FRICE.
Text Books for Steam Engines.	
Griffin's Steam Engines explained, 18mo. paper, pp. 60	0 12
Christian Knowledge Society's Steam and other Steam Engines, 18	3mo <b>.</b>
paper, pp. 58. (See also page 104)	$\dots 0 12$
Reynolds' Section of a Screw Line of Battle Ship. Showing	; the
interesting internal arrangements of a First-rate Man-of-War, fitted	with
the Screw Propeller. Drawn by A. W. Morant, C.E. On a sheet 2	feet
by 1 foot, coloured, in wrapper	20
Reynolds' Natural Philosophy.—A series of twelve Diagrams of	
tural Philosophy together with an 1. Introduction to Natural Phi	
phy. 2. A popular account of the properties of Bodies: 3. Mechan	nical
Powers : 4. Motion and Machinery : 5. The Science of Hydrostat	ics :
6. Hydraulics: 7. Pneumatics: 8. Acoustics; 9. Optics; 10 Elec	trie-
ity; 11. Magnetism and 12. Chemistry. The "Introduction" bei	
companion to Reynold's series of popular Diagrams of Natural Phil phy, comprising two hundred and fifty illustrations. Svo, pp. 24.	
a portfolio, demy 4to, cloth and paper, jr. Price	2 40
Reynolds' Pictorial Atlas of Common Things.—Two hundred	
fifty illustrations of the Elementary principles of Natural Science,	
Popular Descriptions adapted to the most ordinary capacity. This	
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once to the mind a clear and concise view of the great laws of Nat	
and of the principles of those common scientific subjects with w	hich
every one should be acquainted. Quarto size, bound in cloth	
Reynold's Science Simplified, And its Elementary Principles cle	
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Parker's First Lessons in Natural Philosophy,	-
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lustrated by numerous Wood Engravings. 12mo,	
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Parker's School Compendium of Natural and	
Experimental Philosophy, embracing the	
Elementary Principles of Mechanics, Hydrostatics	
Hydraulics, Pneumatics, Acoustics, Pyronomics,	
Optics, Electricity, Galvanism, Magnetism, Elec-	
tro-Magnetism, Magneto-Electricity and Astrono- my; with a description of the Steam and Loco-	
motive Engines. 8vo. pp. 405	30 <b>"</b>
Wilson's First and Second Lessons in Natural	
Philosophy, 24mo. paper; 2 books; each 16 "1 8	8 "
McGauley's Philosophy.—Lectures on Natural	
Philosophy, by Professor McGauley, of the Na-	
tional Schools, Dublin, with numerous illustra-	
tions, in two parts. Bound in one volume, pp. 680, \$2 00	
(See also, the authorised list of Grammar School Books	
and Books of Reference for Teachers. pp. 40	
and 54.)	

G



# XXV. SCHOOL APPARATUS, ETC.

Allen's Educational Tables.

Consist of a Frame, on which are Sets of Letters arranged in Alphabetic order. These letters are fastened to the frame by a button sliding in a groove, and can be carried to any part of the frame separately, and formed into words and sentences in grooved lines made for that purpose in the upper part of the Frame. The Figure Tables are furnished with Figures and Signs, movable in the same way, and by means of which all the Rules of Common Arithmetic may be illustrated.
Large Letter Table on Stand\$11 00
Large Figure Table to hang up 4 40
Small Letter Tables.
No. 1. having 3 Sets Capital, and 5 Sets Small Letters
No. 2. " 2 " " and 4 " " "
No. 1. having 3 Sets Capital, and 5 Sets Small Letters
No. 4. " 3 Sets either Capital or Small Letters
No. 5. " 1 Set Capital Letters 0 85
Small Figure Tables.
Small Figure Tables. No. 1. having 4 each of Figures, Signs, &c \$6 80
No. 2. " 3 " " "

* The Illustrations of Messrs. Ide and Dutton's Apparatus have been kindly furnished by the proprietors.



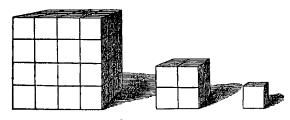
* The illustrations of the Holbrook Apparatus have been kindly furnished by the manufacturers.

# Orrery Tellurian, Globes, Forms and Solids. (See pages 21, 33, 35 and 36.) NET OASH PRICE.

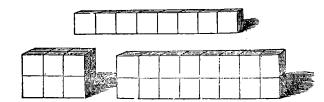
<ul> <li>Brass Mounted Orrery, (3 feet in diameter) (See Illustration, page 36</li></ul>
page 21
gravity)
Lunarian
9600000       000000         960000000000       90000000000         96000000000000000000000000000000000000
Groombridge's ditto0 175, \$1 25, \$1 50, \$2 00
3. GEOMETRICAL FORMS, SOLIDS AND ILLUSTRATIONS. (See also page 72.) Twenty Geometrical Forms and Arithmetical Solids, containing blooks to demon- strate the carpenter's theorem, that the square of the hypothenius equals the
sum of the squares of the other two sides. (See Engravings on the next page.) 1. Cube No. 1. 2. Cube No. 2. 3. Cube No. 3. 4. Parallelopiped No. 4. 5. Parallelopiped No. 5. 6. Parallelopiped No. 6. 7. Parallelopiped No. 7. 10. Parallelopiped No. 7. 11. Sphere. 12. Hemisphere. 13. Oblate Spheroid. 7. Parallelopiped No. 7. 14. Prolate Spheroid. 7. Parallelopiped No. 7. 14. Prolate Spheroid. 7. Parallelopiped No. 7. 15. Cylinder. 16. Triangular Prism. 17. Rectangular Prism. 19. Cone and Frustrum. 20. Pyramid and Frustrum. 21. Prolate Spheroid. 22. Price per set in a paper box

## A set of GEOMETRICAL SOLIDS, for \$1.25 to \$1.75.

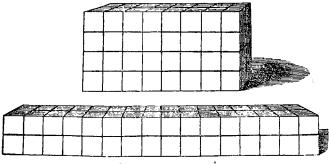
These will give pupils definite ideas of the shape of solids, far better than pages of description, and much more clearly than any drawings can. We know nothing better. For explaining the Rules for Mensuration or Solid Measurement, they afford the only proper means.



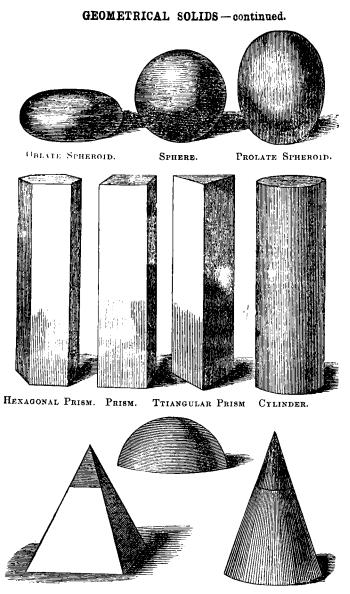
CUBES.





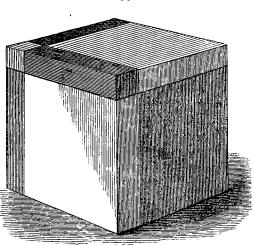


PARALLELOPHPEDS. *

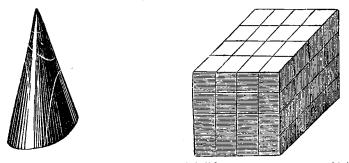


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95

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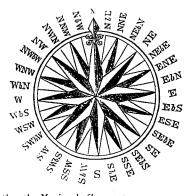
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Baker's Circle of Knowledge: Three Graduated Reading Lessons, by Charles Baker. Each Gradation consisting of 200 lessons. The sections into which the series are divided, are as under: IX. Reptiles & Fishes. XVII. Social Life. I. Introductory. X Insects & Worms. XVIII. Government. IL The body and its XI. Plants. XIX. Other Nations. XX. Trade and Comparts. XII. The Earth. III. Food. IV. Clothing. V. Dwellings. XIII. Substances. merce. XIV. The Air and the XXI. Matter. VI. Education. Heavens. XXII. The Senses. XV. Divisions of Time. XXIII. The Mind, VII. Mammalia. XVI. Climates. XXIV. Attributes of God VIII. Birds. Giadation I.—Demy quarto; the set of 200 Lessons...... 1 75 Gradation II -- Royal folio; the set of 500 Lessons on 100 sheets...... 3 20 Gradation III.-Imperial folio; the set of 200 Lessons on 107 sheets..... 4 00 Manual Edition of the Circle of Knowledge, for Teachers, 16mo. tv.-1st Tin Frames are provided for the Tablet Lessons, which open at the front ; the Frame for 1st Gradation, 75 cts.; for 2nd Gradation, \$1; 3rd Gradation..... Baker's Manual for Collective Teaching, I. Objects..... 0 13 Reading without Spelling..... 0 10 The Bible Class Book ...... 0 70 The Book of Bible Events..... 0 20 The Book of Bible Characters..... 0 20 Christian Knowledge Society's Progressive Tablet Reading Lessons, (large) per set of 12..... 0 30 itto ditto per set of 24. 0 60 ditto ditto Spelling Lessons for Schools ditto 35.. 0 45 Ditto Ditto ditto Lessons from the 1st Reading Book, 22. 0 30 Ditto ditto Reward Prints, with Letter Press, beautifully printed in oil colors, per set of 12..... 1 00 Whyte's Tablet Reading Lessons, (large) per set of 15..... 0 50 National Tablet Reading Lessons, per set of 33 ..... 0 25 National Tablet Arithmetic Lessons, per set of 60...... 0 40 **Bumstead's Table for Training the organs of Speech in Articulation. 3 feet** 9 inches wide, by 4 feet 9 inches long, printed in colors, mounted.... 2 00 Ditto Reading Table 2 feet, 6 inches wide, by 3 feet, 8 inches long, mounted .... . . . . . . . Ditto Numeral Table. 3 feet 7 inches wide, by 2 feet 6 inches long, mounted...... 1 25 Ditto Punctuation Table. 3 feet 7 inches wide, by 2 feet 6 inches long, mounted...... 1 25 The entire set of Tables, on sheets. Am. Edi. wdtc..... 1 25 do do Mounted...... 5 00

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<b>Prayers</b> , &c. Morning and Evening Prayer for Schools, on two sheets 0       12         The Lord's Prayer, and Apostle's Creed, 2 sheets	
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Prayers, &c. Morning and Evening Prayer for Schools, on two sheets 0       12         The Lord's Prayer, and Apostle's Creed, 2 sheets	
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Prayers, &c. Morning and Evening Prayer for Schools, on two sheets 0       12         The Lord's Prayer, and Apostle's Creed, 2 sheets	
Prayers, &c. Morning and Evening Prayer for Schools, on two sheets 0       12         The Lord's Prayer, and Apostle's Creed, 2 sheets	
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- "Forgive and ye shall be forgiven;"—Children, be ye kind one to another.
   "A word fitly spoken, how good is it;"—A soft word turneth away wrath.
   "They that seek me early shall find me;"—Remember now thy creator in the days of thy youth.
   "Jesus saith," suffer little children to come unto me, and forbid them not.
   "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 command-

Mottoes :

ments.

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15. Poor obin.	
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Writing Model, First or Elementary set, 40 Plates mounted on card board Do Second set: Medium, or half text hand, and the Cyphers		50 20
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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.

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

The various methods of Etching, Engraving, Modelling, &

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Do do No. II, do do do pp. 56	0 50
Do do No. III, Perspective. do do do pp. 56	0 50
Drawing Copy Book No. I Primary and Elementary. Small quarto, pp.	
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Do per dozeu	$1 \ 25$
Do No. II, Primary and Elementary. Small pp 20, singly	0 13
Do per dozen	1 25
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pp. 116.	0 60
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Landscape Drawing, divided into Three Series. Eng Edi. tv. Per set.	J 80
FIRST SERIES Expressive Outline. By J. V. Richardson, Professor of	
Drawing, Oxford. 24 Plates.	

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

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- 1. The Expulsion from Paradise. 2. Building the Ark.

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

(The following are Authorised by the English Department of ,	Science and .	Ari	t.)
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Ditto ditto Mounted on two cards	•••••	0	20
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Ditto ditto Mounted		(	65
Taylor and Walton's Linear Drawing Copies, comprising upw subjects on 24 sheets, mounted on thick pasteboard, in a po	vards of 200 ortfolio	1	25
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canvas, without rollers, per set		2	00
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W. H's Alphabet of Color. Crown 4to.stretcher	0 7	8
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Robinson's Little Artist's Drawing Book	0 20
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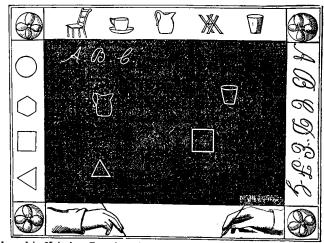
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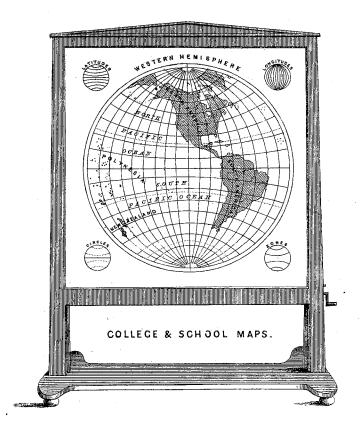
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#### ERRATUM.

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

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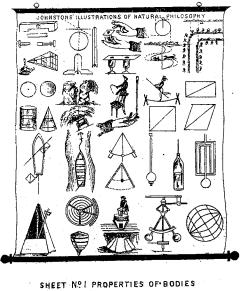
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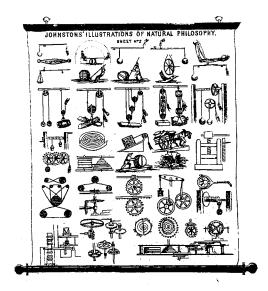
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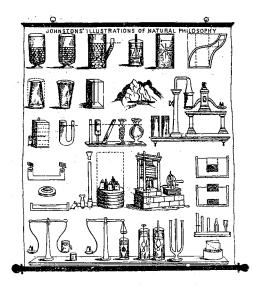
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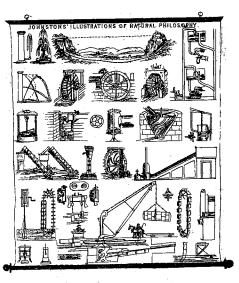


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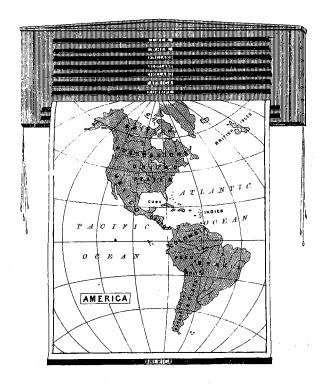
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