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A condensed catalogue of chemical and other apparatus [...].

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Philosophical Apparatus, &c., sold by HORNE, THORNTHWAITE, & WOOD, 123, Newgate Street, London.

Philosophical Apparatus, &c., sold by HORNE, THORNTHWAITE, & WOOD, 123, Newgate Street, London.

A CONDENSED CATALOGUE
OF
CHEMICAL AND OTHER APPARATUS,
FOR ILLUSTRATING THE VARIOUS BRANCHES OF
NATURAL PHILOSOPHY;

MANUFACTURED AND SOLD BY
HORNE, THORNTHWAITE, AND WOOD,

Opticians, and Philosophical Instrument Makers to the Hon. Corporation of the City of
London Schools, British and Foreign School Society, &c., &c.

123, NEWGATE STREET, LONDON.

CHEMICAL APPARATUS.

	s.	d.	to	£	s.	d.
ALEMBSICS, Glass, ¼ pint to 2 qts.	5	0		1	0	0
Alembics, Earthen	3	0				
Argand Lamps	6	0		0	8	0
Ditto ditto, with double Concentric Wick					0	15
Alkalimeters					0	6
Boxes of Fragments for the Blowpipe					0	2
Bladder, with Ferrule	2	0		0	3	0
Ditto, with Stop Cock	5	0		0	6	6
Bars of Copper, Zinc, and Iron	0	6		0	1	6
Brass Tripod Stands						
Black Lead and Porcelain Tubes for Furnaces	1	0				
Bent Tubes of every description made to order				0	2	6
Brass Pipe for blowing Gas Bubbles	0	6				
Blowpipes, common	6	0				
Ditto, Pepy's	6	0				
Ditto, Wollaston's	1	0		0	2	6
Ditto, Black's	5	0				
Ditto, Bergman's				2	2	0
Ditto, Gurney's Oxy-Hydrogen				1	10	0
Ditto, Self-Acting Spirit, Brass	6	0				
Ditto, ditto, Tin	63	0		6	6	0
Ditto, Bellows, with Table, &c.					0	9
Ditto, Hemming's Jet	21	0		1	5	0
Ditto, Tilley's Hydraulic				2	2	0
Ditto, ditto, very superior				0	10	0
Balloons	1	6				

	<i>s. d.</i>	<i>£ s. d.</i>	
Bell Air Jars, Glass, with ground stoppers, for collecting the gases			
each 2s. 6d.,	3 3	0 4 0	
Ditto ditto, mounted with Brass Caps and Screws, for the reception			
of Air Cocks and other Apparatus, each, pints 4s., quarts, 5s.			
Ditto, graduated	from 3 6		
Cut Air Jars, per nest of 6		0 8 6	
Ditto ditto, larger		0 10 0	
Crucibles, Cast Iron	each 0 6	to 0 3 0	
Ditto, Hessian and English	in nests 0 3	to 0 1 0	
Chemical Scales	from 5 6		
Ditto ditto, with Decimal Weights	from 63 0		
Chafing Dishes	each from 12 0		
Crucible Tongs	from 1 6		
Covered Copper Wire	per lb. 4 0	to 0 12 0	
Copper Basins	from 1 9		
Copper Sand Baths	from 2 0		
Iron ditto	from 7 0		
Cubic Inch Tubes	each	0 5 0	
Caoutchouc, in sheets	each 1 0		
Ditto Tubing	per ft. from 1 6		
Ditto Varnish	per oz. 0 4		
Copper Stills, with Furnace, Tub, &c., complete	from	5 5 0	
Cuff's Scale of Chemical Equivalents	5 6	to 0 6 6	
Cement for attaching Brass Work to Glass Apparatus	per lb.	0 2 0	
Cryophorus	each	0 4 0	
Bottles, stoppered, of all dimensions.			
Ditto ditto, with Glass Caps, for Acids, Volatile Fluids, &c.	from 2 0		
Ditto, Woulfe's	each pint 2 6	qt. 0 3 6	
Ditto, Specific Gravity	each	0 1 6	
Ditto, Specific Gravity, stoppered, and graduated to 1000 grains, in			
Tin Case, with Counterpoise Weight		0 8 6	
Connecting Pieces and Ferrules, Brass	each	0 0 10	
Candle Bombs	per doz.	0 0 4	
Decimal Weights, complete set of, in Mahogany Box		1 10 0	
Deflagrating Ladles	each	0 0 6	
Deflagrating Ladle and Air-tight Collar	2 6	0 3 6	
Davy's Safety Lamp	each	0 10 6	
Dropping Tubes	0 4	0 0 6	
Elegant and very useful Apparatus, for Experiments with the mixed			
Gases upon Lime		1 0 0	
Eudiometers, Ure's		0 8 6	
Evaporating Dishes of real Wedgwood-ware, not liable to crack or			
stain—			
	<i>s. d.</i>		<i>s. d.</i>
2 inch over	each 0 4	8 ditto	each 1 8
3 ditto	0 6	9 ditto	2 0
4 ditto	0 9	10 ditto	2 6
5 ditto	1 0	11 ditto	3 6
6 ditto	1 4	12 ditto	4 0
Flasks, $\frac{1}{2}$ pint			5 0
Ditto, $\frac{1}{3}$ pint			0 5
Ditto, pint			0 9
Ditto, quart			0 10
Ditto, with bent Tubes for generating Gases			1 3
Filtering Paper	per lb.	5 0	to 0 8 6
Funnels, Glass and Porcelain	from 0 6		0 1 4
Ditto, long-necked, bent Glass	" 2 0	to 0 3 6	
Furnaces, Black Lead	" 10 6	to 3 3 0	
Ditto, French	" 21 0	to 1 10 0	
Ditto, Horne and Co's improved Portable, combining the ordinary			
Chemical Furnace, with the Reverberatory and Blast, com-			
plete, with Sand-bath, &c.	from £6 6	to 12 12 0	
Ditto, Round			3 3 0
Ditto, Dr. Black's			4 15 0

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	s.	d.	£	s.	d.
Furnace Stoves, for experimental purposes, made to order.					
Fire-clay and Lutes	per lb.	0	6		
Glass and Enamel Rods	from	0	3		
Glass Tubing	per lb. from	2	4	0	3
Ditto, Green, free from lead		3	6		
Gauge for showing the expansion of metals by heat				0	5
Hydrogen Lamps	21s.,	30	0	0	2
Hope's Eudiometer				0	10
High Pressure Boiler and Stand, with Barometer Tube, Thermometer, and Lamp, complete				3	3
Horizontal Revolving Jet, for exhibiting Philosophical Fire-works with Hydrogen Gas	from	7	0		
Hydrometers	from	7	0		
Lactometers, for ascertaining the relative value of Milk	per set			0	14
Mortars, Agate	from	5	0	to	2
Ditto, Iron		1	9		
Ditto, Composition—No. 0000				0	1
" " " 000				0	1
" " " 00				0	2
" " " 0				0	2
" " " 1				0	2
" " " 2				0	3
Ditto, Glass	from			0	2
Muffles, Earthenware		0	6		
Mercurial Troughs, Mahogany		6	0		
Ditto ditto Iron		6	0		
Models of Crystals, in Wood	per set			0	7
Ditto ditto, in Glass				0	18
Measure Glasses, from 1 oz. to 20		1	6	to	0
One gallon Tin Still, with Worm and Tub complete		21	0		1
Ditto Copper ditto ditto				2	2
Ditto ditto ditto, with Iron Furnace				4	4
Pneumatic Troughs of various sizes	4s. 6d.,	10	6		0
Pepy's Improved Gas Holder, which, with the addition of a Jet, forms a most convenient Hydraulic Blowpipe	30s., 42s.,	52	6	3	3
Ditto small Balneo, or Filter Bath, for drying precipitates or explosive compounds, at a heat not exceeding 212° Far.				0	10
Plates of Glass for covering Air Jars		0	6	to	0
Precipitating Glasses, ¼ pint				0	0
Ditto ditto, ½ pint				0	1
Palmer's Oxy-Hydrogen Jet	each			1	1
Ditto, with Bladders, &c.				2	2
Platinum Spoons	from	1	6		1
Ditto Forceps	from	3	0		0
Pulse Tubes	each			0	1
Retorts, Earthenware					
Ditto ditto Tubulated					
Ditto, Cast Iron, with connecting Tube for the production of Oxygen and other Gases	each			0	10
Retort Stands, Iron, with 3 sliding Rings	from	4	6	to	0
Ditto ditto Brass, ditto		8	0		0
Reflectors, for experiments on Radiant Heat				2	2
Retorts, best glass:—					
2 ounces, plain	£0	0	5	Stopped or Tubulated	0
4 ditto	0	0	6	ditto	1
8 ditto	0	0	9	ditto	1
1 pint	0	1	0	ditto	2
Quart	0	2	0	ditto	3
3 pint	0	2	6	ditto	4
2 quart	0	3	0	ditto	5
1 gallon	0	3	6	ditto	6
2 ditto	0	4	6	ditto	9
3 ditto	0	5	6	ditto	11
4 ditto	0	7	6	ditto	15

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	£	s.	d.		s.	d.	£	s.	d.
Receivers, glass:—									
1-pint, plain	0	0	8	Tubulated			0	1	2
ditto	0	0	9	ditto			0	1	3
Pint	0	1	0	ditto			0	1	6
Quart	0	1	9	ditto			0	2	6
3 Pint	0	2	6	ditto			0	3	9
2 Quart	0	3	6	ditto			0	4	9
				Ditto quilled, $\frac{1}{4}$ pint, 1s. 6d.— $\frac{1}{2}$ pint, 1s. 9d.—pint, 2s. 6d.					
Spirit Lamps, Glass					2s., 3s., 4	0	0	5	0
Ditto Brass							0	7	0
Ditto with Concentric Wick and double Current of Air, on Professor Rose's principle, mounted on a Stand							0	18	0
Thornthwaite's Analysis Lamp							2	2	0
Stills, Working Models of					30	0	2	2	0
Syphons, Glass							0	2	6
Ditto Pewter and Copper, with Stop Cock					from 7	0			
Stop Cocks, Brass					each		0	3	0
Small Iron Wire, for combustion in Oxygen Gas									
Steel Crushing Mortars and Pestles					each		0	14	0
Thermometers					from 4	6			
Ditto Chemical					from 15	0			
Test Glasses—									
$1\frac{1}{2}$ oz.					per doz.		0	7	0
3 oz.							0	8	0
5 oz.							0	9	0
7 oz.							0	10	0
Test Tubes					per doz.	2	0	to	0
Ditto Stands					from 1	0			
Test-tube Holders							0	0	6
Tube Retorts					0	6	to	0	0
Tubes, Earthenware					from 0	9			
Test Papers of Litmus and Turmeric					each 0	1			
Woulf's Apparatus of three bottles, with three necks each, mounted with Conducting and Safety Tubes, in a Mahogany Tray, pints					16	0			
Ditto ditto quarts					20	0			
Water Hammers					each 4	0			
Welter's Tube of Safety							0	2	0
Watch-glass Holders							0	0	6

CHEMICAL CABINETS,

consisting of small assortments of Chemicals and Apparatus packed in case, for exemplifying the first principles of Chemistry, 10s. 6d., 21s., 42s., and 63s.; if of larger size, from £5 5s. to £21. and upwards.

ANALYSIS CHESTS,

for Testing Minerals or general Analysis, complete, from £10 10s. to £50.

ASSORTMENTS OF CHEMICAL APPARATUS,

for performing the chief Chemical Experiments, £3 3s., £5 5s., £10 10s., £20, and upwards. These assortments are packed in ordinary packing-cases, and can be recommended as preferable to chemical-chests, except in those cases where portability is of some moment. For a detailed list of the articles in each set, see General Catalogue.

CHEMICALS,

perfectly pure, for Analysis and other purposes, in sets, from 21s. to £10 10s., or, singly, in any quantity that may be required for the Arts or Manufactures. See complete list, with prices, in General Catalogue.

	s.	d.		s.	d.		
Acid, Acetic	0	2	oz.	Acid, Benzoic	3	0	oz.
" Strongest	1	0	"	" Boracic	1	0	"
" Arsenious	0	3	"	" Citric	1	0	"
" Arsenic	1	0	"	" Fluo Silicic	0	6	"

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	<i>s. d.</i>		<i>s. d.</i>
Acid, Gallic	5 0 oz.	Calcium, Sulphuret	0 4 oz.
" Hydriodic Sol.	1 6 "	Carbon, Sulphuret	1 0 "
" Muriatic, Common	0 3 lb.	Charcoal, Animal	0 3 "
" " Pure	0 2 oz.	" " Boxwood	0 6 "
" Nitrous	1 4 lb.	Copper, Granulated	3 0 lb.
" Nitric	1 4 "	" Acetate	1 0 oz.
" " Pure	0 4 oz.	Copper Carbonate	0 6 "
" Nitro Muriatic	0 4 "	" Foil	0 3 "
" Oxalic, Common	0 3 "	" Leaf	0 2 bk.
" " Pure	0 6 "	" Muriate	0 6 oz.
" Phosphoric, Sol.	1 3 "	" Nitrate	0 3 "
" " Glacial	1 6 "	" Oxides	1 6 "
" Pyroligneous	1 0 lb.	" Sulphate, Common	0 6 lb.
" Succinic	5 0 oz.	" " Pure	0 3 oz.
" Sulphuric, Common	0 3 lb.	" Sulphuret	0 6 "
" " Pure	0 2 oz.	" Turnings	3 0 lb.
" Tartaric, Common	0 3 "	Cobalt	10 0 oz.
" " Pure	0 6 "	" Acetate, Solution	1 0 "
Alloys, various.		" Muriate, Solution	1 0 "
Æther, Acetic	1 0 oz.	" Oxide, Common	5 0 "
" Pyroligneous, imp. pt.	1 6 "	" " Pure	10 0 "
" Sulphuric	0 6 "	Fluor, Spar	0 8 lb.
" " Rectified	0 9 "	Flux, Black	0 6 oz.
" Nitric	0 8 "	" White	0 6 "
Alumine	1 6 oz.	Galls	0 2 "
" Acetate, Sol.	0 4 "	" Tincture	0 3 "
Amber	0 6 "	Gold Chloride, Solution	5 0 "
Ammonia, Solution	0 2 "	" Leaf	1 9 bk.
" Strong	0 3 "	Iodine	
" Carbonate, Pure	0 3 "	Iron, Acetate	0 4 oz.
" Hydro Sulph. Sol.	0 6 "	" Carbonate	1 0 lb.
" Muriate	0 2 "	" Chromate	0 6 "
" " Pure	0 6 "	" Filings	0 6 "
" Nitrate	5 4 lb.	" Muriate	0 6 oz.
" Oxalate	1 0 oz.	" Nitrate, Solution	0 3 "
" Phosphate	0 8 "	" Oxides	0 6 "
" Sulphate	0 3 "	" Sulphate	0 2 "
" Succinate	3 0 "	" Sulphuret	0 8 lb.
Antimony	0 3 "	" Turnings	0 6 "
" Glass	0 3 "	Lead	0 2 oz.
" Nitro Muriate, Sol.	0 2 "	" Acetate	0 2 "
" Oxides	1 0 "	" Bin Acetate, Pure	0 6 "
" Sulphuret	0 8 lb.	" Carbonate	0 2 "
Archil	0 2 oz.	" Chromate	0 6 "
Arsenic	0 6 "	" Granulated	1 6 lb.
" Sulphurets	0 4 "	" Nitrate	0 6 oz.
Baryta	2 6 "	" Oxides	
" Crystals	0 3 "	" Tartrate	0 6 "
" Carbonate	0 4 "	Lime, Carbonate	0 1 "
" " Native	0 4 lb.	" Chloride	0 8 lb.
" Chlorate	2 6 oz.	" Fluete	0 8 "
" Muriate	0 6 "	Lime, Muriate, Crystals	0 6 oz.
" Nitrate	0 6 "	" " Fused	1 0 "
" Sulphate	0 4 "	" Phosphate	0 3 "
Barytic Water	0 6 "	Lime, Phosphuret	1 0 "
Bismuth	0 3 "	Litmus	0 6 "
" Oxide	1 0 "	" Tincture	0 3 "
" Nitrate	1 6 "	Lycopodium	0 6 "
" Nitrate Solution	0 6 "	Magnesia	0 8 "
Borax	0 2 "	" Carbonate	0 4 "
Bromine		" Sulphate	0 1 "
Cadmium	2 0 dm.	Manganese, Oxides, Black	0 3 lb.
" Oxides	2 0 "	" " Grain	0 3 "
Calcium, Chloride, Fused	1 0 oz.	Mercury, Chloride	0 6 oz.

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	s.	d.		s.	d.
Mercury, Bi-Chloride	0	6 oz.	Silex	1	0 oz.
" Nitrate	0	6 "	Sodium	0	1 gr.
" Oxides	1	0 "	Soda, Carbonate	0	3 oz.
Naptha, Rectified	2	0 "	" Bi-Carbonate	0	3 "
Nickel, Common	0	3 "	Strontia	2	0 "
" Sulphate	1	0 "	" Crystals	2	0 "
Phosphorus	0	9 "	" Muriate	0	6 "
Platinum, Balls	1	0 ea.	" Nitrate	0	2 "
" Chloride, Sol.	2	0 oz.	Silver, Leaf	1	6 bk.
" Native			" Nitrate	5	0 oz.
" Sponge			" Fused	5	0 "
Platinum			Sulphur, Roll	0	4 lb.
Potassium	0	1 gr.	" Sublimed	0	6 "
Potash, Fused	0	6 oz.	Tin	0	3 oz.
" Pure	2	0 "	" Foil	0	3 "
" Carbonate	0	9 lb.	" Granulated	0	3 "
Potash, Carbonate Pure	0	6 oz.	Test Papers, Brazil Wood	0	1 sht.
" Bi-Carbonate			" Litmus	0	1 "
" Chlorate	0	4 "	" " Red	0	1 "
" Chromate	0	6 "	" " Red Cabbage	0	1 "
" Bi-Chromate	0	6 "	" " Turmeric	0	1 "
" Hydriodate			Zinc	0	4 lb.
" Nitrate, Pure	0	3 "	" Foil	0	3 oz.
" Prussiate	0	3 "	" Granulated	0	8 lb.
" " Pure	0	6 "	" Malleable Sheet	0	8 "
Selenium	0	4 gr.	" Sulphate	0	3 oz.

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TOXICOLOGICAL APPARATUS,

complete with Chemicals in Chests, as described by Christison, Thompson, Marsh, Reinsch, &c., &c., £3 3s., £5 5s., and £10 10s.

AGRICULTURAL CHEMISTRY,

	£	s.	d.
An assortment of all the necessary Apparatus and Chemicals for the complete analysis of Soils and Manures, of the best size and quality, carefully packed in strong iron-bound chest. For a detailed list of the Articles and Chemicals, see General Catalogue	42	0	0
Assortment No. 2, containing the same articles as No. 1, but with cheaper balance, platinum crucible, &c.	30	0	0
Assortment No. 3	21	0	0
The Assortments No. 1, 2, and 3, are calculated for a complete quantitative analysis of any soil or manure, as described in Sir H. Davy's Agricultural Chemistry, Liebig's Works, Professor Johnson's Catechism of Agricultural Chemistry, and other standard works on Agricultural Analysis, and are particularly adapted for Farmer's Clubs, Agricultural Associations, and also for exportation.			
Assortment No. 4, containing one or two of each of the most important articles in No. 1	10	10	0
Assortment No. 5, ditto on a small scale	5	5	0
Assortment No. 6, ditto ditto	3	3	0
The Assortments Nos. 3, 4, 5, and 6, are in the form of chests, the Chemicals arranged at the top, and the Apparatus in a drawer below.			
The <i>Farmer's Chest</i> , for roughly ascertaining the comparative quantities of the following ingredients in various samples of soils, with directions—stones, coarse sand, fine sand, clay, lime, moisture, organic matter, and iron			
Sir H. Davy's apparatus for the analysis of calcarious soils	1	10	0
Hydrometric Glass Beads for ascertaining the strength of sulphuric acid for agricultural purposes, per set of three	0	6	0

ELECTRICITY.

	£	s.	d.		£	s.	d.
Small Cylinder Electrical Machines	1	5	0	Air Pistol	0	6	0
2nd Size	2	2	0	Powder Cannon	0	5	6
3rd do.	3	10	0	Sportsman	1	5	0
4th do.	4	10	0	Thunder House	0	9	0
5th do.	6	0	0	Powder ditto	1	1	0
6th do.	8	0	0	Obelisk	0	7	0
9-in. Plate Machines	3	3	0	Egg Stand	0	9	0
12 ditto	4	10	0	Image Plates	0	9	0
18 ditto	7	10	0	Pith Ball Stand	0	5	0
24 ditto	12	0	0	Gold Leaf Electrometer	0	16	0
Set of 5 Spirals	2	2	0	Lane's ditto	0	7	0
Spiral on Foot	0	8	6	Cavallo's ditto	0	15	0
Hand Spiral	0	5	6	Quadrant ditto	0	7	0
Diamond Spotted Jars, 8s. 6d. to	0	15	0	Leyden Jars from 3s. 6d. to	1	10	0
Star, in Frame	0	8	6	Pith Balls, per doz. 1s. to	0	2	0
Bird, in Frame	0	8	6	Pith Figures, each from	0	1	0
Luminous Conductors from	0	10	6	Head of Hair	0	7	0
Magic Picture	0	7	6	Electrophorus from	0	10	6
Flask	0	6	6	Batteries from 10s. to	10	0	0
Spider Jar	0	8	6	Insulated Stools from	0	10	6
Cuthbertson's Discharger	2	2	0	Amalgam per box	0	1	0
Universal ditto	1	10	0	Bucket and Syphon	0	5	6
Jointed ditto	0	10	6	Electrical Cylinders from	0	3	6
Gamut of Bells	1	16	0	Glass Handles	0	1	3
Set of Five ditto	0	18	0	Ditto Legs	0	1	6
Set of Three ditto	0	7	6	Pocket Electrical Bottle, and Riband for charging the same	0	7	6
Air Cannon 12s.,	0	18	0				

PNEUMATICS.

Single Barrel Air Pump, with Receiver	21s., 25s.,	1	10	0
Ditto ditto, with Fountain		2	5	0
Small Size Double Barrelled Pump	3l. 10s.,	4	14	6
Middle Size ditto ditto		7	7	0
Ditto, with Guage Plate		8	8	0
Ditto, with raised Plate		9	9	0
Large Size Double Barrelled Air Pump		12	12	0
Ditto on Stage Stool		19	0	0
Single Transierer		0	16	0
Double ditto		2	2	0
Guinea and Feather Apparatus, 3 falls		1	4	0
Ditto ditto, 2 falls		0	16	0
Syringe and Lead Weight		0	12	0
Fountain in Vacuum, best make		0	15	0
Ditto ditto common		0	7	6
Lungs Glass		0	7	6
Bladder Frame and Lead Weights		0	7	6
Filtering Cup		0	6	6
Fruit Stand		0	5	0
Wheel and Upright Barometers from		3	3	0
Open and Close Receivers for Air Pump from		0	3	6
Bladder Glass for ditto		0	3	6
Model of a Water Pump, showing the principle and absurdity of the term "Suction" 21s.,		1	10	0
Ditto of Forcing ditto		2	15	6
Large Size Hemisphere		1	10	0
Middle ditto		0	18	0
Small ditto		0	13	0
Bacchus		1	8	0

THORNTHWAITE, & WOOD, 123, Newgate Street, London.
 Philosophical Apparatus, &c., sold by HORNE, THORNTHWAITE, & WOOD, 123, Newgate Street, London.

	£	s.	d.
Wind Mills on a new and superior construction		3	3 0
Copper Bottle, Beam, and Stand		2	15 0
Bell Experiment	from 10s. to	1	1 0
Exhausting and Condensing Syringes		0	7 0
Ditto, in one Instrument		0	10 0
Pocket Condensers for Instantaneous Light		0	3 0
Sliding Wire, and Collar		0	12 6
Ditto ditto Thornthwaite's Improved, with ball and socket joint		0	17 6
Model of Diving Bell		1	5 0

GALVANISM, OR VOLTAIC ELECTRICITY.

Cruikshank's Batteries, in Mahogany Troughs	from 12 ls. 0d. to	5	5	0
Grove's Platinum Batteries, excited with dilute muriatic acid in connection with the zinc, and strong nitric acid in connection with the platinum, from Smee's Batteries, in round earthenware pots, so constructed that the zincs can be readily replaced by means of a binding screw, without the trouble of soldering or bending:—		1	15	0
Pints		0	10	0
Quarts		0	12	6
4-Quart		1	5	0
6-Pint ditto, in mahogany tray, so constructed that they may be arranged for quantity or intensity, with flexible conducting wires		3	3	0
6-Quart ditto, ditto		3	17	6
Ditto ditto, in Wollaston's troughs of 12 cells, with double zincs, and the silver plates, presenting a surface of 252 square inches		5	5	0
Ditto ditto, of 432 inches		6	6	0
Cast-Iron, or Maynooth Batteries, per cell.		0	7	6
Every description of Apparatus connected with MAGNETISM and ELECTRO-MAGNETISM, for which see General Catalogue.				

ELECTRO-METALLURGY.

ELECTROTYPE APPARATUS for procuring, by galvanic action, perfect fac-similies of engraved copper-plates, however elaborate; also, correct copies of medals, seals, plaster casts, and all kinds of metallic ornaments, from 10s. 6d. to 3l. 3s. 0d. and upwards.

OPTICAL APPARATUS.

The Patent Pantoscopic Spectacles, the most recent and scientific invention for the improvement of sight, from 7s. 6d. to 25s.; if gold mounted, to £3 3s. See "Smee on Vision in Health and Disease, and the Value of Glasses for its Restoration," p. 64. Price 1s.

MICROSCOPES.

Single Microscopes for Botanical and other purposes from 5s. to 1 10 0

ACHROMATIC MICROSCOPES.

Horne and Co.'s improved Medical Compound Achromatic Microscope, with achromatic object-glass, box, brass forceps, &c. &c., magnifying power, from 1000 to 8000, packed in mahogany case or cabinet		5	5	0
Ditto, with jointed pillar and fine adjustment, test objects, &c., magnifying power varying from 1000 to 12,000		7	10	0
Ditto, ditto, magnifying power from 1000 to 25,000		10	10	0
Ditto, ditto, ditto 1000 to 50,000, with extra eye piece, &c.		15	15	0
Very superior Compound Achromatic Microscope, with moveable and safety stage, fine adjustment, two eye-pieces, and two sets of achromatic object-glasses, capable of magnifying from 1500 to 100,000 times, plane and concave mirrors, detached condensing lens, aquatic box, brass forceps, &c., and six objects mounted in balsam, the whole packed in neat mahogany cabinet		21	0	0
Ditto, ditto, of higher magnifying power, and fitted with achromatic condenser, silver specula, polarizing apparatus, &c.	from £35 to	80	0	0

Messrs. Horne, Thornthwaite, and Wood, beg to call particular attention to their Achromatic Microscopes, which are constructed on the best principles, and can confidently be recommended for all purposes of microscopic research, which now forms such an important feature in the study of animal and vegetable physiology, &c.

Philosophical Apparatus, &c., sold by HORNE, THORNTHWAITE, & WOOD, 123, Newgate Street, London.

Magic and Phantasmagoria Lanterns, Slides, &c., from 16s. to £5 5s., and upwards; if for exhibiting Astronomical Diagrams, Views, &c., from £1 10s. to £21 and upwards. Oxy-Hydrogen Microscopes, Chromatropes, &c.

DISSOLVING VIEWS

(As shown at the Royal Polytechnic Institution.)

	£	s.	d.
Complete Apparatus, with Lenses 3 inches diameter, illuminated with Argand Oil Lamps, capable of showing a disk 9 feet in diameter	10	10	0
Views for ditto	0	10	0
Dissolving View Apparatus, illuminated with the Oxy-Hydrogen or Lime Light, capable of showing pictures 20 feet diameter, consisting of a pair of mahogany lanterns, with brass fronts, and dissolving apparatus, 2 pair of 4 inch lenses or condensers, 2 oxy-hydrogen jets and lime burners, flexible tube connections, 2 large India rubber bags and pressure boards, lead bottle, tube, and purifier, for making hydrogen gas, iron retort, &c., for oxygen gas, folding mahogany tripod stand, &c., complete	42	0	0
Ditto, Ditto, with 6 inch condensers	60	0	0
Ditto, Ditto, 9 inch ditto	85	0	0
Views for Oxy-Hydrogen Microscope, with objects fitted to the above	15	15	0
Ditto, Ditto, complete with the gas apparatus, &c.	35	0	0

ACHROMATIC TELESCOPES.

18-inches long, with rack and pinion, on stand	8	8	0
Ditto, ditto, in German silver	14	14	0
30-inch ditto	12	12	0
Ditto, with vertical rack	14	14	0
Ditto, with vertical and horizontal rack	21	0	0
Ditto, with finder and micrometer	23	10	0
42-inch, with rack and pinion	30	0	0
Ditto, with vertical rack	32	0	0
42-inch, with vertical and horizontal rack-work movement, finder, and micrometer	35	0	0
Ditto, with extra large object glass	40	0	0
Ditto, with equatorial stands	30	0	0
Telescopes, from 5 to 7 feet, with all the recent improvements, from £100 to 300	100	0	0
The whole of the above Astronomical Telescopes are furnished with two-day powers, and two or more astronomical powers, and are packed in cases.			

REFLECTING TELESCOPES, &c.

One-foot Gregorian Reflecting Telescope, on stand, packed in mahogany case, speculum 9½ inches diameter	6	6	0
One-foot and a-half ditto, speculum 3 inches diameter	11	11	0
Two-feet ditto, speculum 4 inches diameter	16	16	0
Ditto ditto, with rack-work motion	25	0	0
Three-feet ditto, with speculum 5 inches diameter, and rack-work motion	42	0	0
Ditto ditto, with speculum 6 inches diameter, on tripod stand, and rack-work motion	63	0	0
Four-feet ditto ditto, with speculum 7 inches diameter	105	0	0
Seven-feet Newtonian Telescope, with speculum 6 inches diameter	105	0	0
Ditto ditto, with speculum 7 inches diameter	126	0	0
Nine-feet ditto, with speculum 9 inches diameter	210	0	0
Transit Instruments	from	£20	to 180 0 0
Micrometers, &c., &c.			

QUADRANTS, SEXTANTS, &c.

Ebony Quadrants	£2	5	0	to	3	3	0
Ditto ditto with Tangent Screw					3	10	0
Ditto ditto with Telescopes	from	4	4	0	6	6	0

Philosophical Apparatus, &c., sold by HORNE, THORNTHWAITE, & WOOD, 123, Newgate Street, London.

	£	s.	d.	£	s.	d.
Ebony Sextants, best				7	7	0
Metal Sextants, on the most improved principle	7	7	0	12	12	0
Ditto, of the best possible construction, divided to 15 sec. cr 30 sec., with apparatus, &c., in case	12	12	0	18	18	0
Artificial Horizons	2	2	0	5	5	0
Cabin and Binnacle Compasses	1	10	0	5	5	0
Azimuth Compasses	4	4	0	10	10	0
Universal and Ring Dials	1	5	0	5	5	0
Pocket Compasses, of every description.						

THEODOLITES.

Common Theodolite				9	9	0
4-inch do. do. with Telescope				12	12	0
Ditto, divided on silver				13	13	0
5-inch ditto				18	0	0
Ditto, best construction, with Tangent Screw motion				24	0	0
Ditto, with two Telescopes				36	0	0
6-inch best Theodolite, divided to 20 seconds, with one Telescope				28	0	0
7-inch ditto ditto, with two Telescopes				42	0	0

LEVELS, COMPASSES, &c.

Portable Levelling Instrument, with Telescope and Compass				8	8	0
14-inch Troughton's Level				11	0	0
Ditto, with Tripod Staff				12	0	0
20-inch Troughton's Level				13	0	0
Ditto, with Tripod Staff				14	0	0
20-inch Y Levels, with Telescope				16	0	0
Dumpy Level, without legs or compass				12	0	0
14-inch Dumpy Level, with legs and compass				15	0	0
Common Spirit Levels	3s.,	4s.,	5s.,	6s.,	and	0 10 0
Spirit Levels, with best Ground Bubbles.						
Miners' Magnetic Compasses, in mahogany cases, with folding sights, from	1	15	0			
Prismatic Compasses	from £2	12	6	to	3	13
Protractors	"	0	2	6	to	7
Perambulator						9
Ditto, brass mounted						12
Ditto ditto and metal wheel						14
Station Staffs				from	2	15
Surveying Crosses or Squares				from	12s.	to
Cylindrical ditto				from	18s.	to
Circumferentors	from £2	12s.	6d.	to	6	6
Plane Tables	from £5	10s.	to	12	12	0
Measuring Chains				from	0	10
Plotting, Marquois, Gunter's Scales, and other Rules.						

DRAWING INSTRUMENTS.

In Fish Skin Cases, in sets	from	£0	7s.	6d.	to	2	2	0
Magazine Sets, in mahogany cases	"	£2	10s.	0d.	to	18	18	0
Proportional Compasses	"	£1	13s.	0d.	to	5	5	0
N. B.—Every other description of Instrument used in Practical Surveying.								

BAROMETERS, &c.

Rest Wheel Barometers	from	£3	3	0	to	10	10	0
Upright ditto	"	1	10	0		7	7	0
Marine ditto	"	3	3	0		6	6	0
Standard Barometers of the best construction						12	12	0
Improved Simpsonometer						3	3	0
Day and Night Self-Registering Thermometers		1	1	0		1	10	0
Six's ditto, ditto	from	1	5	0		2	2	0
Thermometers of all descriptions	"	0	2	6		5	0	0
Hygrometer (Daniell's)						2	5	0
Ditto (Mason's)						2	10	0
Pluviometers					from	1	10	0

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Philosophical Apparatus, &c., sold by HORNE, THORNTHWAITE, & WOOD, 123, Newgate Street, London.

EDUCATIONAL MODELS.

£ s. d.

A Set of the Mechanical Powers, consisting of various systems of pulleys, different kinds of levers, the wheel and axle, the inclined plane, wedge, model of the screw, a compound engine, and other apparatus complete for illustrating and demonstrating the laws of motion, gravity, and equilibrium of forces, &c., on an extensive scale, <i>in brass</i>	50	0	0
Ditto, ditto, on a smaller scale, suitable for schools, &c.	21	0	0
Ditto, ditto, chiefly constructed of mahogany and hardwood, £3 3s., £5 5s., and Sets of Geometrical Solids from 9s., if with planes and sections for cone and sphere, from 15s. Sectional and other Models of Steam Engines, Hydraulic Presses, and various other Machines, &c., &c.	8	8	0

GLOBES,

Constructed on the newest and best principles, from 6 to 20 inches diameter, containing all the recent discoveries.

Black stained wood frames for the table, particularly applicable for schools—			
20 inch, per pair	9	10	0
15 ditto	6	0	0
12 ditto	4	0	0
9 ditto	3	0	0
3 ditto	1	15	0
Mahogany frames—			
20 inch, per pair	10	10	0
15 ditto	6	10	0
12 ditto	4	10	0
9 ditto	3	10	0
6 ditto	2	2	0
Carved rosewood frames, very handsome—			
20 inch, per pair	13	0	0
15 ditto	8	8	0
12 ditto	6	6	0
9 ditto	4	14	6

If the above Globes are required on chair-high frames, with compass boxes, the price will be from £2 2s. to £4 4s. extra, according to the size.
 Orreries, Planatariums, Tellurians, &c., &c., to order from 2 10 0

PHOTOGRAPHIC APPARATUS.

No. 1. Horne and Co.'s complete Apparatus for Daguerreotype and Calotype Processes, for obtaining pictures from 8½ by 6½ downwards, with every requisite for views, portraits, miniatures, &c., including best adjusting camera, with compound achromatic lens, double backs for plates and paper, camera stand, improved bromine and iodine apparatus, plate boxes, polishing frame, mercury box, buffs, washing apparatus, spirit lamp, gilding stand, all the requisite chemicals in stoppered bottles, &c., the whole packed in two cases, with locks and keys	£70 to 100	0	0
No. 2. Daguerreotype Apparatus complete, for pictures, 8½ by 6½, 6 by 5, 5 by 4, with double achromatic lens, expanding camera, iodizing and bromine apparatus, mercury box, plate boxes, polishing blocks, buffs, gilding stand, spirit lamp, and all the requisite chemicals, &c.	40	0	0
No. 3. Ditto, ditto, for pictures 5 by 4, 4 by 3, and 2½ by 3¼	30	0	0
No. 4. Ditto, ditto, ditto, 4 by 3, 2½ by 3¼, and 2½ by 2	£18 18s. and 20	0	0
No. 5. Ditto, ditto, ditto, 3¼ by 2½, and 2½ by 2	£10 10s. and 12	12	0
No. 6. Daguerreotype Apparatus complete, with single achromatic lenses, from £6 6s. to	22	0	0
Calotype Apparatus complete, for obtaining pictures on paper, including a Cundell's camera of best construction, the requisite chemicals in stoppered bottles, scales and weights, reversing frame and glass, glass measure, earthenware trays, glass plates, paper, &c., packed in case, with lock and key	£10 10s. and 15	15	0
Ditto, ditto, with fewer apparatus, &c.	£3 3s., £5 5s., and 8	8	0
Calotype, or Talbotype Apparatus, of the best description, including a folding achromatic camera, and every other requisite for obtaining full-sized pictures, packed in two portable cases, and particularly adapted for travellers	25	0	0

Philosophical Apparatus, &c., sold by HORNE, THORNTWALTE, & WOOD, 123, Newgate Street, London.

Philosophical Apparatus, &c., sold by HORNE, THORNTWALTE, & WOOD, 123, Newgate Street, London.

Cameras with single achromatic or double achromatic lenses, from £1 1s. 0d. to £20 0s. 0d., according to the diameter of and kind of lens employed.

Horne and Co.'s improved Compound Achromatic Lenses, mounted in brass fronts, with a delicate rackwork adjustment, and brass ring for adaptation to the camera.

No. 1.	For Pictures	8½ by 6½,	combined focus	12 in.,	diameter of lenses	4 in.	25	0	0
No. 2.	Ditto	6 by 5,	Ditto	8 in.,	Ditto	3½ in.	15	15	0
No. 3.	Ditto	8½ by 6½,	Ditto	12 in.,	Ditto	3½ in.	12	12	0
No. 4.	Ditto	4 by 3,	Ditto	6 in.,	Ditto	2½ in.	8	8	0
No. 5.	Ditto	6 by 5,	Ditto	8 in.,	Ditto	2½ in.	7	7	0
No. 6.	Ditto	4 by 3,	Ditto	6 in.,	Ditto	2 in.	4	14	6
No. 7.	Ditto	3½ by 2½,	Ditto	6 in.,	Ditto	1½ in.	3	13	6

Messrs. H., T., and W. have much pleasure in recommending the above combinations, as producing remarkably sharp and brilliant pictures, free from aberration, and in the shortest space of time.

Single Achromatic Lenses, unmounted,—

1½	inch diameter,	4 inch focus,	and upwards	.	.	.	.	.	0	6	0
1½	Ditto	5	Ditto	.	.	.	.	.	0	8	0
1½	Ditto	6	Ditto	.	.	.	.	.	0	10	6
2	Ditto	8	Ditto	.	.	.	.	14s. and	1	10	0
3	Ditto	12	Ditto	.	.	.	.	.	3	3	0

Parallel Mirrors, mounted in frame, to attach to the front of the camera, for taking pictures in a correct position for ¼-plate lenses 3 3 0
Ditto ½-plate ditto 4 4 0

Plano-Convex, Crossed, Meniscus, and every other description of Lens required in Photographic Experiments.

Silvered Plates, of the best English manufacture, of all sizes.

Plate Boxes, for holding the prepared Plates, in walnut-wood, mahogany, or japanned metal.

Pans of hard glazed Porcelain, for containing iodine or accelerating mixtures, with ground plate glass covers, for any size plates, up to 4 in. by 3 in. ea. 0 2 0

Ditto, ditto, in mahogany or walnut cases, with three frames for holding the various sized plates 0 12 0

Ditto, ditto, with levelling screws, &c. 1 1 0
Iodine Boxes, lined with glass from 0 6 0

Iodizing or Bromine Troughs, with set of frames, consisting of deep glass pan, enclosed in mahogany case, air-tight glass cover, mirror, &c., for plates, 4 by 3 downwards £1 4s. and 1 10 0

Ditto, for Plates, 6 by 5 downwards each £1 10s. and 2 2 0
Ditto, ditto, 8½ by 6½ ditto „ £3 10s. and 4 4 0

IMPROVED IODIZING AND BROMINE APPARATUS,

Consisting of two stout glass pans, enclosed in mahogany or walnut-wood case, with spring bottoms and air-tight glass covers. Two mirrors are placed on one side, for viewing the plate while being prepared, and, on the other two, apertures for the admission of light. The great advantage of this form of apparatus for preparing plates, consists in the facility and certainty with which the sensitive coatings are applied:—

No. 1,	for Plates from 8½ by 6½ downwards	.	.	.	.	.	.	.	8	8	0
No. 2,	for Plates from 6 by 5 downwards	.	.	.	.	.	.	£3 10s. and	4	4	0
No. 3,	for Plates from 4 by 3 downwards	.	.	.	.	.	.	.	2	10	0

Plate Cleaners from 2s. to 0 6 0
Velvet Buffs, for polishing plain from 1s. 9d. to 0 2 6
Ditto, improved, with handle 3s. to 0 10 0

Metal Frames for holding the plates, while polishing in lathe or hand:—
For plates, 2½ by 2 0 5 0
Ditto 3½ by 2½ 0 7 6
Ditto 4 by 3 0 9 0

Mercury Boxes of the most improved kinds from 13s. to 2 2 0
Ditto, of larger size from £2 2s. to 4 4 0

Double folding Tripod Stand, with ball and socket movement, &c., £2 2s. and 3 3 0
Ditto, ditto, plain, not jointed 1 17

Horne and Co.'s improved Portable Universal Stand 2 2 0
Ditto, ditto, with jointed top and legs 2 15 0

Earthenware Washing Tray and Stand 0 3 6

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Philosophical Apparatus, &c., sold by HORNE, THORNTHWAITE, & WOOD, 123, Newgate Street, London.

	£	s.	d.
Ditto, ditto, small size	0	1	6
Washing Trays, in copper and glass	from	0	2 6
Glass Spirit Lamps	2s., 3s., 4s., and	0	5 0
Ditto Graduated Measures	2s., 2s. 6d., and	0	3 6
Ditto Mortars and Pestles	from	0	2 6
Ditto Stirring Rods		0	0 3
Ditto Funnels		0	0 6
Brass Spirit Lamps	from	0	3 6
Brass Stand, for fixing by chloride or hyposulphite of gold		0	3 6
Improved ditto, with adjusting screws	4s. 6d. and	0	10 6
Ditto, ditto, best construction, with adjusting screws and springs		1	1 0
Brass Spirit Lamps, with levelling screws		0	5 6
Head Rests to attach to chair for steadying the head whilst taking portraits		0	7 6
Improved ditto, on heavy iron foot, so as to be independent of the chair		3	3 0
Finely carded Cotton Wool	per oz.	0	0 3
Ditto ditto	per lb.	0	4 0
Retorts and Retort Stands, Receivers, Flasks, &c.			
Copper and Tin Stills, with worm and tub complete, for drawing distilled water,	£1 1s., £1 5s., and	2	2 0
Claudet's Brass Frames, for retaining prepared plates	each 10d., 1s., and	0	1 2
Improved ditto of japanned tin, with covers	each	0	2 0
Prepared Goldbeater's Skin, for fastening pictures in frames, cases, &c., per doz.		0	3 0
Pliers for holding plate over spirit lamp for drying off, &c.		0	2 0
Silver plated Washing Apparatus, for taking any size picture up to 4½ by 3½, from		0	15 0
Dark Lanterns, with yellow glass slide		0	12 0
Redman's Prepared Colours for colouring daguerreotype pictures, in cases containing 12 different tints in bottles, gold and silver shells, prepared brushes, &c., complete		1	1 0
One Quart Filterer, with brass cock complete		0	10 0
Half gallon Stone Barrel, with brass cock		0	6 0
Instrument to count seconds, with alarum		3	0 0
Ditto ditto without alarum		1	5 0
Portable Rectangular Frame, for preparing sensitive paper		0	2 0
Ditto ditto best make		0	5 0
Camel's Hair Brushes, for photographic purposes	6d., 1s., 1s. 6d., and	0	2 0
Ditto ditto for colouring daguerreotypes	each, from	0	0 3
Pressure Frames and Glass, for obtaining positive photographs, or copying engravings, lace, leaves, &c.	5s., 7s. 6d., 10s. 6d., and	1	1 0
Earthenware Trays, for washing and setting pictures	1s. 6d. and	0	2 0
Tin Vessels for heating photogenic drawings	3s. and	0	5 0
Monier's pure White Paper	per quire	0	1 6
Whatman's Turkey Mill (selected)		0	1 6
Turner's ditto		0	1 6
Sandford's superior ditto, prepared expressly for Photographic purposes, folio		0	4 0
Ditto ditto, quarto		0	2 0
White wove Blotting Paper	per quire	0	1 6
Scales and Weights, common		0	3 6
Ditto ditto, best make, with glass pans		0	18 0

MOROCCO CASES AND FRAMES.

Morocco Cases, lined with silk velvet, and gilt mats, with square cushion, oval and other mats for pictures, 4½ by 3½		0	5 6
Ditto, 4 by 3		0	5 0
Ditto, 3½ by 2½		0	3 0
Ditto, 2½ by 2		0	2 0
Morocco Frames, with suspension ring mats and glasses, for plates, 4½ by 3½		0	3 6
Ditto ditto, 4 by 3		0	3 0
Ditto ditto, 3½ by 2½		0	2 3
Ditto ditto, 2½ by 2		0	1 3
Skeleton Frames, to contain Daguerreotype Pictures.			
Common ditto, with black line border, on paper, for plates, 2½ by 2	8d. to	0	1 0
Ditto ditto, 3½ by 2½	9d. to	0	1 0
Ditto ditto, 4 by 3	1s. to	0	1 4
Ditto, enamelled glass, with black line border for plates, 2½ by 2	10d. to	0	1 2
Common ditto, painted on glass, with black line border for plates, 3½ by 2½ 1s. to		0	1 3

		£	s.	d.
Ditto ditto, 4 by 3	1s. 3d. to	0	1	6
Best ditto, with ornamental gilt borders, of various forms and patterns, for plates, 2½ by 2	1s. 4d. to	0	1	8
Ditto ditto, 3¼ by 2¾	1s. 6d. to	0	1	9
Ditto ditto, 4 by 3	1s. 9d. to	0	2	6
<i>The price of the above Frames, if taken by the dozen, would be considerably lower.</i>				
Gilt Mats, square, oval, dome top, and cushion shape, 2½ by 2	per doz.	0	6	0
Ditto ditto, 3¼ by 2¾	ditto	0	12	0
Ditto ditto, 4 by 3	ditto	1	4	0
Ornamental lacquered Brass Frames	2s., 3s. 6d., and	0	4	0
Papier Maché Miniature Frames, with oval or square sights	from	0	3	6
Superior chased Gold Lockets and Brooches, with plain and engine-turned backs, for containing daguerreotype pictures	from	0	15	0
Bracelets, Snuff Boxes, &c., for ditto ditto				

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PURE CHEMICALS.

PREPARED FOR PHOTOGRAPHIC PURPOSES.

Iodine, Commercial				variable
Ditto, Pure	per ounce	ditto	ditto	
Ditto, Bromide Solution		ditto	ditto	
Ditto, Chloride Saturated		ditto	ditto	
Ditto, ditto, Diluted		ditto	0 4 0	
Ditto, Tincture		ditto	0 1 0	
Bromine, Pure		ditto	0 4 0	
Ditto, Chloride		ditto	0 3 0	
Liqueur Hongroise, or Hungarian Solution			0 1 0	
Redman's Sensitive Solution	per bottle, 2s. 6d. and		0 4 0	
Woolcott's American Accelerator	per bulb		0 0 8	
Distilled Mercury			0 0 6	
Hyposulphite Soda			0 0 6	
Ditto ditto	per lb.		0 5 0	
Chloride Gold, Crystals (pure)	per dram		0 12 0	
Ditto ditto	per grain		0 0 3	
Ditto, Solution	per ounce		0 5 0	
Oxide Gold	per dram		0 18 0	
Redman's improved Solution of Gold, for permanently fixing daguerreotype images	per bottle		0 1 6	
The new Salt of Gold, for ditto			0 5 6	
Nitric Acid, pure	per ounce, 3d.—per lb.		0 2 6	
Prepared Tripoli	per ounce		0 0 6	
Ditto Rouge	ditto		0 0 6	
Ditto Emery	ditto		0 0 6	
Ditto Rotten Stone	ditto		0 1 0	
Ditto Lamp Black	per pint, 1s. 6d. and		0 2 0	
Pyroligneous Ether or Naptha			0 0 2	
Protosulphate Iron			0 0 6	
Chloride of Lime, pure	per bottle		0 1 6	
Bingham's Bromide of Lime	ditto		0 1 0	
Ditto Chloro ditto	per ounce		0 1 0	
Acetic Acid, crystallisable			0 5 0	
Gallic Acid, pure			0 6 0	
Succinic Acid, ditto			0 4 0	
Iodide Potassium, commercial			0 5 0	
Ditto ditto, pure			0 4 0	
Bromide ditto, commercial			0 5 0	
Ditto ditto, pure			0 2 0	
Cyanide ditto ditto			0 5 0	
Nitrate Silver, pure crystallised			0 10 0	
Oxide Silver	per ounce, 3d. and		0 0 4	
Solution of Ammonia	per ounce		0 2 0	
Oil of Lavender			0 0 2	
Olive Oil			0 0 2	
Herschel's Solution of Ferro Tartrate of Silver	ditto		0 4 0	
Distilled Water	per gallon		0 1 0	