CATALOGUE

OF

ACHROMATIC MICROSCOPES,

&c.

MANUFACTURED BY

SMITH AND BECK,

TO WHOM

THE COUNCIL MEDAL OF THE GREAT EXHIBITION OF 1851

AND

THE FIRST CLASS MEDAL OF THE FRENCH EXHIBITION OF 1855

HAVE BEEN AWARDED FOR

"THE EXCELLENCE OF THEIR MICROSCOPES."

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6 COLEMAN STREET, LONDON.
MARCH 1856.

CONTENTS.

	Page
Explanation of the Three Classes of Microscopes	4
Prices of Achromatic Object-Glasses for the 1st and 2nd Class Microscope Stands Nos. 1, 2, 3 & 4	5
1st Class Microscope Stands	6
1st Class Apparatus to ditto	7
2nd Class Microscope Stands	8
2nd Class Apparatus to ditto	9
Microscope Tables	9
Microscope Lamps	9
3rd Class "Educational" Microscope	10
Microscopic Objects	11
Cabinets for Objects	11
Instruments used in preparing Objects	12
Materials used in mounting Objects	12
Woodward's Table Polariscope and Microscope	13
Books	13
Telescopes	13
Spectacles and Eye-glasses	14
Stereoscopes	15
Drawing Instruments	1
Barometers, Thermometers, &c.	15

ACHROMATIC OBJECT-GLASSES*.

For the 1st & 2nd Class Stands (Nos. 1, 2, 3 & 4).

THE increase of the angle of aperture of the Object-Glasses in the following Table is more especially worthy of notice in the lower powers, which, adjusting through considerable thickness of glass, or some depth into water, will, with a large aperture, exhibit those objects which are the most frequently examined by the naturalist, with a definition that a smaller angle of aperture cannot give. One of these Object-Glasses, a 4-10ths (erroneously called "half-inch"), is thus alluded to in the "Reports of the Juries of the Great Exhibition" (p. 266), Class X., No. 253.

> "The half-inch focus of 70° aperture is a wonderfully fine combination, easily showing objects considered difficult for a one-eighth inch focal length a little more than a year since, and bearing the application of the higher eye-pieces in an unprecedented manner."

Focal length.	Linear Magnifying Power nearly.	With Eye-Pieces. No. 1	No. 2	No. 3	Angle of aperture about	Price.	Lieberkuhn additional.
1 1/2 inch	Draw-tube closed	20	45	80		£ s. d.	
	Add for each inch of tube drawn out	4	6	8	13 degrees	3 0 0	15s.
2/3 inch	Tube closed	60	105	180			
	Add for each inch of tube.....	7	12	20	27 degrees	3 3 0	11s.
4/10 inch	Tube closed	120	210	350			
	Add for each inch of tube.....	12	20	35	55 degrees	5 5 0	10s.
Ditto	Ditto	do.	do.	do.	65 degrees	6 6 0	10s.
Ditto	Ditto	do.	do.	do.	75 degrees	7 7 0	10s.
1/5 inch	Tube closed	240	430	720			
	Add for each inch of tube.....	30	45	80	85 degrees	6 6 0	
Ditto	Ditto	do.	do.	do.	100 degrees	7 7 0	
1/8 inch	Tube closed	450	760	1300			
	Add for each inch of tube.....	40	60	115	120 degrees	10 10 0	

The Erecting Glass for low power.....£1 0 0

The magnifying power of this glass with the 2-3rds Object-Glass and employing eye-pieces Nos. 1 & 2, is from 5 to 150.

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* These Object-Glasses can be adapted to Ross' or Powell and Lealand's Microscopes without the instruments being required for that purpose.

Explanation of the 3 Classes of Achromatic Microscopes,

Manufactured by Smith and Beck.

A Compound Achromatic Microscope consists, essentially, of an Object-Glass, and an Eye-piece; so called, because they are respectively near the object and the eye when the Instrument is in use. The Object-Glass screws, and the Eye-piece slides, into opposite ends of a tube termed the Body, and upon the union of the two the Magnifying Power depends. But some form of *Stand* is invariably employed to carry the *Magnifying Power*, to hold, or to give traverse to the object, and to receive various apparatus for *Illumination*.

Under this general description the following Microscopes may be arranged in *Three Classes* :—

In the *First*, the *Magnifying Power*, the *Stand*, and the *Illumination* are carried to the greatest possible perfection.

In the *Second*, the same *Magnifying Power* is combined with a *Stand*, and apparatus for *Illumination*, less expensive but very efficient.

In the *Third*, the capabilities of all the parts are limited, but yet equal to the requirements of many, and of considerably less cost.

Although the following Lists of Apparatus are complete in each Class, any portion of them can be ordered, and the Stands are not required by the makers for subsequent additions.

First Class Microscope Stands.—Nos. 1 & 2.

These Stands are contrived for an easy and most accurate mode of applying every kind of illumination; one of similar construction was shown by S. and B. at the Great Exhibition of 1851, and is thus mentioned by the Jury.

"The Stand is excellent in principle; the body, stage, and appliances beneath, are all carried on one stout bar, on the recommendation of Mr. G. Jackson, by means of which the centring of the Achromatic illumination is rendered easy and certain; and on any tremor being communicated to the Instrument, it is equally distributed over the whole of the working parts."

(Reports of the Juries, p. 266, Class X. No. 253.)

		£	s.	d.
No. 1.	Improved Large Microscope. The limb continued under the stage, and with cylindrical fitting and rack-work, for applying all illuminating apparatus with ease and accuracy; mounted on two pillars and cones, with revolving base to tripod; body with quick and slow motions, graduated sliding tube, and two eye-pieces; stage about half an inch thick, with vertical and horizontal actions (given by rack-work and screw, or lever), sliding and revolving planes, and spring clamping piece; diaphragm with revolving and removeable fittings; large plane and concave mirrors, with lengthening arm, and sliding on a triangular bar; pliers, joint and forceps, and two glass plates	22	0	0
	Best Upright Case in Spanish mahogany, with two boxes for apparatus.....	4	10	0
	Best Upright Case with one box	3	15	0
	Upright Case in Honduras with two boxes	3	3	0
	do. do. one box	2	10	0
No. 1.	Improved Large Microscope, the same as the above, but made very portable	25	0	0
	Strong Spanish Mahogany Case for ditto, with covered dovetails (19 in. long by 9 in. wide, and 4 in. deep)	3	10	0
No. 2.	Improved Smaller Microscope, on the same principle, and with the same actions as No. 1, but with single pillar	18	0	0
	Best Upright Case in Spanish mahogany, with box for apparatus	3	10	0
	do. Honduras do. do. ...	2	10	0
	Strong Flat do. in Spanish, and covered dovetails ...	1	15	0

First Class Microscope Stands.—Nos. 1 & 2.

APPARATUS.

	£	s.	d.
3rd Eye-piece for No. 1 Stand	0	17	6
do. do. No. 2 do	0	15	0
Indicator to No. 1 Eye-piece	0	5	0
do. No. 2 do.	0	5	0
do. No. 3 do.	0	5	0
Achromatic Condenser on an improved construction of two powers, and revolving diaphragm, to give various illuminating pencils, from 80° to 25°, also stops for the central rays, complete with adjustments	5	0	0
Achromatic Condenser without diaphragm, apertures 60° and 20°, brass work with adjustments	2	10	0
Achromatic Condenser, brasswork of, with adjustments	1	0	0
Right Angle Prism for reflecting the light more perfectly than the mirror, with adjustments and fittings to the triangular mirror stem complete, and the reflecting surface uncovered for the convenience of wiping	2	10	0
Amici's Prism for oblique light, mounted on an improved plan, and the reflecting surface uncovered	2	2	0
Nachet's Prism for oblique light, with accurate revolving fitting	1	1	0
Wenham's Parabolic Reflector, giving a dark-field with an Object-Glass of 100° of aperture, adjusting stop and fittings	1	15	0
Polarizing Apparatus of two Nicol's Prisms, with revolving fittings	2	5	0
Darker's Series of Selenites, which give 13 different colours and their complementary tints, mounted on an improved plan for their more accurate and easy appliance	3	15	0
Selenite Film of two colours	0	5	0
Black Glass Polarizer, with fitting	0	15	0
Two Double Image Prisms and Selenite film, with fittings to Eye-piece, and brass plate with holes	2	2	0
Crystals to show rings round the optic axis and fitted to Eye-piece.....each from	0	10	6
Tourmalines .....from	1	0	0
Large Bull's Eye Condensing Lens on stand	1	1	0
Smaller Condensing Lens, with ball-and-socket joint to limb	0	18	0
Side Silver Reflector, with complete fittings to limb	1	1	0
Dark Wells of three sizes, with holder	0	12	6
Brooke's double Nose-piece	1	10	0
Camera Lucida, Wollaston's	1	0	0
Micrometer, with Jackson's adjusting screw and fittings to Eye-piece	1	0	0
Micrometer for stage, divided into 100ths and 1000ths of an inch	0	10	0
Compressorium	1	0	0
do. Wenham's, for use with Parabola	0	7	6
Screw Live Box	0	14	6
Large Live Box	0	8	6
Smaller do.	0	6	6
Large Glass Trough, with wedge and spring complete	0	8	6
Frog Plate, with bag, &c., complete	0	10	6
Glass Tubes, set of three	0	2	6
Three-pronged Forceps	0	8	6

Second Class Microscope Stands.—Nos. 3 & 4.

	£	s.	d.
No. 3. *Best Student's Microscope*, with uprights and joints, quick and slow motions to body, graduated sliding tube, and two eye-pieces; thin stage, with vertical and horizontal actions by rackwork, sliding and revolving planes, and spring clamping piece; diaphragm with revolving and removeable fittings; double mirror, with lengthening arm; pliers, forceps, and two glass plates	12	12	0
No. 3. *Best Student's Microscope*, the same as above, but with plain stage, consisting of sliding piece and clamping spring	8	8	0
Upright Case for No. 3 Stand in Honduras mahogany, with box for apparatus	2	10	0
Strong flat case for ditto in Honduras, dovetailed ...	1	5	0
No. 4. *Smaller Student's Microscope*, with quick and slow motions to body, one eye-piece, sliding tube, stage with sliding piece and clamping spring, revolving and removeable diaphragm, single concave mirror, pliers, forceps, glass plate and mahogany case.....	5	10	0

Apparatus to Nos. 3 & 4 Stands.

No. 3 *Eye-piece* for No. 3 or 4 Stand	0	15	0
Indicator to No. 1 Eye-piece	0	5	0
do. No. 2 do.	0	5	0
do. No. 3 do.	0	5	0
Achromatic Condenser of two powers, 60° and 20° of aperture, rackwork and adjustment to brasswork	3	0	0
Achromatic Condenser as above, with sliding fitting, and no adjustment to brasswork	2	5	0
Achromatic Condenser, Lenses of	1	10	0
Nachet's Prism for oblique light	0	18	0
Wenham's Parabolic Reflector, with adjusting stop	2	10	0
Polarizing Apparatus of two Nicol's Prisms, with revolving fittings, and one plate of selenite	2	10	0
Two Double Image Prisms and Selenite Film, with fittings to Eye-piece, and brass plate with holes	2	2	0
Crystals to show rings round the optic axis and fitted to Eye-piece.....each from	0	10	6
Tourmalines.....from	1	0	0
Darker's Selenite Stage	2	2	0

Second Class Microscope Stands.—Nos. 3 & 4.

Apparatus (*continued*).

	£	s.	d.
Small Condensing Lenses, on stand, with complete movements	0	12	0
Side Silver Reflector, on stand, with complete movements...	1	1	0
Dark Wells of three sizes, with holder.....	0	12	6
Brooke's Double Nose-piece	1	10	0
Camera Lucida, Wollaston's	1	0	0
Micrometer, with Jackson's adjusting screw and fittings to Eye-piece.....	1	0	0
Micrometer for stage, divided into 100ths and 1000ths of an inch	0	10	0
Compressorium	1	0	0
Ditto, Wenham's, for use with Parabola	0	7	6
Screw Live Box	0	14	6
Large Live Box	0	8	6
Smaller ditto	0	6	6
Large Glass Trough, with wedge and spring complete	0	8	6
Frog Plate, with bag, &c., complete.....	0	10	6
Glass Tubes, set of three	0	2	6
Three-pronged Forceps	0	8	6

Microscope Tables.

Walnut-wood Table, with improved revolving fitting, on handsome pillar and claw, with leather top	8	8	0
Iron Table, with revolving top	5	5	0

Microscope Lamps.

Improved small Camphine Lamp, with glass cap, to prevent evaporation of the spirit when not in use	2	2	0
Best Argand Lamp, with blue chimney for burning oil	1	5	0

Gas Lamps made to order.

PRICES OF THE THIRD CLASS,

OR

EDUCATIONAL MICROSCOPE

AND

APPARATUS.

This Microscope is intended to meet a want that has been much felt by students and others, who have been desirous of possessing an instrument equal to their requirements, whether in Physiology, Chemistry, or the minute forms of animal or vegetable life, but have not been able or not disposed to incur the cost of such as are larger or more elaborate. To these, that which is now submitted to their notice is believed to offer peculiar advantages; in the convenience of its structure and its very moderate price, in connexion with its capabilities and the quality of its workmanship.

	£	s.	d.
The Microscope—with 1 inch and $\frac{1}{4}$ inch Object-Glasses, having the respective apertures of 22 and 75 degrees, and two Eye-pieces; a firm Stand with a joint for varying the position, quick and slow motions to the body, a Stage with springs that allow any motion to be given to the object; concave Mirror with complete adjustments; a side Condensing Lens; Diaphragm with a shutter; Forceps; Glass Plate, and pair of Pliers; packed in a strong Mahogany Case.....	10	0	0

ADDITIONAL APPARATUS.

Mahogany Board, required for packing any of the following parts	0	7	6
Lieberkuhn to 1 inch object-glass, and dark well	0	12	0
Wenham's Parabolic Reflector, for "dark-field illumination"	1	0	0
Flat Mirror (in which case, a double one is substituted for the single concave one which has to be returned) ...	0	7	6
Polarizing Apparatus, complete with prisms and selenite ...	1	12	6
Wollaston's Camera Lucida, for drawing an object.....	0	15	0
Glass Micrometer, ruled into $\frac{1}{100}$ths and $\frac{1}{1000}$ths of an inch.	0	5	0
Small Live Box	0	5	0
Glass Trough, complete with wedge and spring	0	6	6
All the above "Additional Apparatus" if ordered at once ...	5	0	0

Microscopic Objects.

[*Persons living in the country can have series of Objects sent for selection, on giving a satisfactory town-reference, and paying carriage both ways. One week will be allowed for examination.*]

	£	s.	d.
Vegetable Preparations :—			
Recent: Cells, Cuticles, Ducts, Fibre, Membrane, Spores, Sporules, Tissues, Spiral and other Vessels, Hairs, Leaves, Petals, Fungi, Sections of Woods, &c. .....each specimen	0	1	6
Fossil: Sections of various exogenous and endogenous Woods .....each section	0	1	6
Slides, with two and three sections ..... 0 3 0 and	0	4	6
Desmidieæ and Algæ .....each slide	0	1	6
Diatomaceæ :—*Recent* : Several hundred varieties, including species of Campylodiscus, Cocconema, Epithemia, Navicula, Surirella, Synedra, &c.—*Fossil*: Specimens from various localities in the British Islands, Germany, Italy, North America, the East and West Indies, New Zealand, &c.	0	1	6
Spicules and Gemmules of Sponges and Gorgonias	0	1	6
Zoophytes, many species	0	1	6
Shells, sections of various species	0	1	6
Echinus Spines, sections in great variety.....	0	1	6
Entomological Preparations :—			
Antennæ, Eyes, Feet, Hairs, Scales, Skins, Spiracles, Stings, Stomachs, Tongues, Tracheæ, Wings, &c. Numerous specimens of Acari and Parasites	0	1	6
Hairs, Whiskers of various Animals mounted whole or in section, Quills, Feathers of Birds, &c.	0	1	6
Objects from Human and other Bodies	0	1	6
Anatomical Preparations :—			
Blood-Discs, Pigment-Cells, Skin, Muscular Fibre, Tissues, &c. .....from	0	1	6
Bones :—			
Transverse and Vertical Sections of 60 or 70 Recent and Fossil Mammals, Birds, Reptiles, and Fishes each slide	0	1	6
Teeth :—			
Transverse and Vertical Sections of about 30 varieties, Recent and Fossil .....each	0	2	0
Injected Preparations .....from	0	2	6
Polariscope Objects, about 100, selected from Animal, Vegetable, and Mineral Substances .....each	0	1	6
Mineralogical :—			
Sections of Limestones, Oolites, Flints, Agates, &c. each from	0	1	6

Cabinets for Objects,

in which the Specimens lie flat, and with Porcelain Labels to the Drawers.

Best Spanish Mahogany Cabinet, with glass panel, and to hold 1000 objects	7	0	0
Honduras ditto, without glass panel	6	6	0

	£	s.	d.
Best Spanish Mahogany Cabinet, with glass panel, and to hold 750 objects	5	15	0
Honduras ditto, without glass panel	5	0	0
Best Spanish Mahogany Cabinet, with glass panel, and to hold 500 objects	4	4	0
Honduras ditto, without glass panel	3	10	0

Cabinets made to any size, and of every description.

Cardboard Boxes, to hold two dozen objects ..... each	0	1	0
Ditto ditto one dozen ditto ..... „	0	0	9
Ditto ditto half dozen ditto ..... „	0	0	6
Single Mahogany Racks, for objects ..... per foot	0	0	6
Double ditto ditto ..... „	0	1	0

Instruments used in Preparing Objects.

Wood-cutting Machine with knife	0	15	0
Instrument for cutting Circles of thin Glass	1	5	0
Diamond for Writing or Cutting thin Glass	0	7	6
Ditto for plate and window Glass	0	18	0
Instrument for making Cells of gold-size or other fluids ...	0	7	6
Page's Wooden Forceps, for holding the glass slides when warmed	0	2	6
Small Brass Tables and Lamps for heating objects in mounting ..... from	0	10	6
Quekett's Forceps for deep jars	0	7	6
Ironwork of Dredge, for deep-water fishing	1	5	0
Small Collecting Bottles ..... per doz. 1*s.* 6*d.* to	0	3	0
Valentin's Knife, for making sections of soft substances	0	15	0
Small Dissecting Knives of various shapes ..... each	0	3	0

Spring Scissors, 7*s.* 6*d.*; Curved ditto, 5*s.*; Straight ditto, 3*s.*
Needle Holders, 5*s.*; Hooks, 2*s.* 6*d.*; Points, 2*s.* 6*d.*
Cutting Forceps, 5*s.* 6*d.*; Spring ditto, 3*s.*

Combination of three Lenses, mounted in Tortoiseshell, for pocket hand magnifiers	0	10	6
Ditto, with small brass stand	0	18	0
Coddington Lenses, in various mountings ..... from	0	9	0

Materials used in Mounting Objects.

Canada Balsam, Asphalt, Gold Size, Glycerine, &c., 1*s.* and 2*s.* bottles.
Deane's Gelatine Medium, 2s. bottles.
Thin Glass, in circles, 6*s.* per oz.; in squares, 4*s.* per oz.; ditto, mixed, 5*s.*
Plate-glass Slips, 3 inches by 1 inch, with ground edges, 1*s.* per doz.
Glass Cells, square, round, oblong, oval, and with solid bottoms, 2*s.* 6*d.* and 3*s.* per dozen.
Labels for covering objects, 3*s.* per hundred.

Woodward's Table and Hydro-Oxygen Polariscope and Microscope.

	£	s.	d.
Woodward's Table Polariscope and Microscope, with polarizing bundle, black glass, silvered reflector, and ground glass shade; large stage, with complete fittings, and two powers with rackwork motions, smaller stage for crystals; and box as stand, with complete fittings for apparatus	10	0	0
The above fitted as a Hydro-Oxygen Apparatus, with lantern, safety jet, bladders, and pressure boards; the Polariscope and Microscope Condensers, and an eye-lens to adapt to the lowest power .....extra	15	0	0
Clock for the Movement of Lime Cylinder	4	4	0
Lime Cylinders .....per dozen	0	3	6
Tourmalines for the above instrument .....from	1	0	0
Selenite objects for ditto ..... „	0	5	0
Glass, Quartz, and other Prisms; together with all matters relating to Polarization.			

Books.

Smith on the British Diatomaceæ, Vol. I.	1	1	0
Ditto ditto 2nd vol. now publishing.....			
Quekett on the Microscope, 2nd Edition	1	2	0
Quekett's Lectures on Histology	0	10	6
Ditto ditto 2nd vol.	0	18	0
Woodward on Polarized Light, 2nd Edition.....	0	3	0
Wythes on the Microscope.....	0	6	0
Hassall's British Freshwater Algæ, 2 vols.	2	5	0
Hassall's Microscopic Anatomy of the Human Body	2	5	0
Microscopic Quarterly Journal ..... each number	0	4	0
Micrographic Dictionary	2	5	0

Telescopes.

1-foot Achromatic Telescope.....	1	12	0
Ditto ditto made very light	1	15	0
20-inch Achromatic Telescope	2	10	0
20-inch Achromatic Telescope, 2 drawers, leather body.....	3	3	0
Ditto ditto ditto for Deerstalking.....	3	10	0
2-feet Achromatic Telescope, 3 drawers	3	10	0
2-feet Achromatic Telescope, 8 drawers, portable	4	4	0
2-feet Achromatic Telescope, 8 drawers, portable, on brass tripod stand, in small mahogany case	6	0	0
30-inch Achromatic Telescope, 3 drawers.....	4	15	0
30-inch Achromatic Telescope, 3 drawers, on brass tripod stand, in mahogany case	9	0	0
3-feet Achromatic Telescope	6	6	0
3-feet Achromatic Telescope, on brass tripod stand, in mahogany case.....	10	10	0
3-feet Achromatic Telescope, 1 terrestrial and 1 astronomical eye-piece, pillar and claw stand, and mahogany case ...	14	14	0

	£	s.	d.
3½-feet Achromatic Telescope, with finder, 1 terrestrial and 4 astronomical eye-pieces, on brass pillar and claw stand, with vertical and horizontal rack movements, and steadying-rods, in mahogany case	40	0	0
Ditto on improved stand	42	0	0
Mahogany stand for ditto and bolt	1	1	0
Universal Equatorial stand for ditto	30	0	0
Varley's Stand, mahogany with brass fittings	12	12	0
Sling cases for portable Telescopes ..... from	0	7	6

Larger Telescopes, with every variety of mounting, made to order.

Spectacles and Eye-Glasses.

Gold Spectacles, double joint	from	1	15	0	to	3	3	0
Gold Spectacles, single joint.....	„	1	10	0	to	3	0	0
Plated Spectacles	„	1	10	0				
Gold Folders	„	2	15	0	to	5	5	0
Plated Folders	„	2	0	0				
Gold Eye-frames	„	0	10	0	to	2	0	0
Plated Eye-frames	„	0	14	0				
Silver Spectacles and Folders	„	1	0	0				
Pearl or Tortoiseshell and Gold Hand-frames.....	„	4	4	0	to	5	5	0
Pearl or Tortoiseshell and Silver Hand-frames.....	„	1	1	0				
French Tortoiseshell and Silver Hand-frames.....	„	0	17	0				
Tortoiseshell Spectacles, double-joint						0	12	6
Tortoiseshell Spectacles, single-joint						0	10	6
Tortoiseshell Folders.....	from	0	7	0	to	0	18	0
Tortoiseshell Folders, with gold bridge.....						1	6	0
Tortoiseshell Eye-glasses	from	0	3	0	to	0	6	0
Fine Blue Steel Spectacles, double-joint						0	14	0
Fine Blue Steel Spectacles, single-joint						0	13	0
Common Blue Steel Spectacles	from	0	5	0				
Spectacles, with tinted glasses	„	0	11	0				
Horse-shoe Frames, with tinted glasses..	„	1	1	0				
Railway Spectacles	„	0	14	0				
New Glasses to Spectacles, convex.....	per pair					0	3	0
New Glasses to Spectacles, concave	per pair					0	4	0
Double for Brazilian Pebbles.								
Spectacle Cases	from					0	1	0

Reading Glasses of every variety	from	0	3	0	to	2	2	0
Opera Glasses, Race Glasses, Horizon Sweeps, &c. &c.....	„	0	12	0	to	9	9	0

Stereoscopes.

	£	s.	d.
Mahogany Stereoscope, and Diagrams	0	15	0
Tin Stereoscope, and Diagrams	0	3	0
Photographic Views on glass ..... from	0	5	0
Daguerreotypes ..... from 0 7 6 to	0	12	6
Talbotypes ..... „ 0 2 6 to	0	5	0
Diagrams, &c. &c.			
Spanish Mahogany Box to hold 2 stereoscopes and 24 slides	2	2	0
Spanish Mahogany Box to hold 1 stereoscope and 32 slides	2	2	0
Spanish Mahogany Box to hold two dozen slides	1	4	0
Spanish Mahogany Box to hold one dozen Slides	0	14	0

Cases for Stereoscopes and Slides made to Order.

Drawing Instruments, &c.

Wollaston's Camera Lucida, mounted..... from 1 10 0 to	3	0	0
Drawing Instruments for school use ..... from	0	7	6
Ditto ditto in mahogany case	1	5	0
Ditto ditto in superior case, 3 ivory rules.....	3	5	0
Ditto ditto ditto in electrum.....	3	15	0
Ditto ditto ditto ditto double-jointed	6	0	0
Beam Compasses ..... from	1	15	0
12-inch Ivory Plotting Scales ..... from 0 7 6 to	1	0	0
12-inch Boxwood Plotting Scales, set of 3, with offsets	0	11	0
Ivory Folding Rules ..... from	0	6	0
Boxwood Folding Rules ..... „	0	1	0
Plain Ebony Parallel Rules ..... „	0	4	0
Plain Rolling Ebony Parallel Rules..... „	0	9	0
Ivory-edged and graduated Parallel Rules ..... per inch	0	1	6

Barometers, Thermometers, &c.

Pediment Barometers ..... from	3	0	0
Pediment Barometer, best, with float gauge	9	0	0
Wheel Barometers..... from	2	2	0
Standard Thermometer ..... „	2	10	0
Negretti's Maximum Thermometer	1	1	0
Six's Self-registering Thermometer	1	10	0
Horizontal Self-registering Thermometer.....	0	17	0
Boxwood Thermometers ..... from	0	3	6
Simmons's Hygrometer	2	2	0

Rain Gauges to Order.

Air-Pumps and Electrical Machines

TO ORDER.

Printed by Taylor and Francis, Red Lion Court, Fleet Street, London.