

CATALOGUE
OF
PHILOSOPHICAL AND MATHEMATICAL
INSTRUMENTS,

MANUFACTURED AND SOLD BY

JAMES GREEN,

NO. 43 SOUTH STREET, BALTIMORE.

BESIDES the articles included in this list, such Instruments, generally, as may be desired for the Lecture Table, or for purposes of research, will be furnished on equitable terms.

CATALOGUE.

MECHANICS.

Attwood's Apparatus, for illustrating experimentally the Laws of Accelerated and Retarded Motion, &c.	\$50 00
Mechanical Powers, consisting of Pulleys, Wheel and Axle, different Levers, Inclined Plane and Carriage, Screw and Wedge. The whole mounted in Mahogany Frame,	20 00
Mechanical Powers, in this set the parts are mounted on Independent Stands, with Extra Illustrations of the Wedge and Levers. The whole made in Brass,	50 00
Six Balls suspended from Mahogany Frame, for showing the laws of Percussion,	3 00 to 10 00
Apparatus, to illustrate the Composition of Forces,	4 00 to 8 00
Mechanical Paradox, double cone moving up an inclined plane,	1 50
Glass Plates, for showing Attraction of Cohesion,	3 00
Lead Cylinders, for the same,	75
Whirling Table, for illustrating the Theory of Central Forces, Law of Planetary Motions, &c.	

HYDRODYNAMICS.

Green's Apparatus, for showing that liquids press according to their Perpendicular Height, not their Quantity; that they find their Level in vessels of Different Forms: illustrating Intermitting Springs; that a Floating Body displaces a quantity of Liquid of Equal Weight with itself; and the Hydrostatic Bellows. The whole in one arrangement,	12 00
The same illustrations separately.	
Apparatus, to illustrate the Properties of Spouting Liquids,	2 00 to 10 00
Apparatus, for illustrating the Upward Pressure of Liquids,	1 00
Do. do. do. Downward do. do.	1 75
Hydrostatic Balance, with apparatus for exhibiting that Bodies Immersed in a liquid Lose of their Weight a quantity Equal to the Weight of their own bulk of the liquid,	20 00
Glass Hydrometers, for Alcohol, Syrups and Acids,	75 cts. to 1 25
Model of the Common Lifting Pump, glass barrel showing the Valves,	5 00
Model of Forcing Pump,	7 00
Models of Lifting and Forcing Pumps, on Stand with Vessel for Water,	14 00
Glass Syphon,	25
Do. do. with suction tube,	75
Hero's Fountain,	5 00
3 Glass Tubes of different bores, for showing Capillary Attraction, 25 cts. to	75
The same mounted on Stand,	1 75
Models of the different Water Wheels.	
Tantalus Cup,	1 50

Nicholson's Hydrostatic Balance, for determining the specific gravity of Solids and Liquids,	\$ 10 00 to	15 00
Hydraulic Cane, or Tube with Valve, for raising water, by plunging,		2 00
Archimedes' Screw,		5 00
Model of Hydraulic Press,	20 00 to	60 00

PNEUMATICS.

Large Double Cylinder Air Pump, with Mercurial Guage,		100 00
Middle size do. do. do. do. do.		50 00
Small do. do. do. do. do. do.		35 00
Single Cylinder, with Lever Motion to piston,		25 00
Small Single Cylinder, with 2 Receivers,		10 00
Syringes, adapted for Exhausting or Condensing by reversing the Valves,	4 00 to	6 00
Magdeburgh Hemispheres, for showing the Pressure of the Air,		5 00
Set of Mills, with sails fixed in contrary planes, for demonstrating the Resistance of the Air,		7 00
Guinea and Feather Apparatus, for the same,	4 00 to	8 00
Fountain in Vacuo,	4 00 to	8 00
Torricellian Experiment, with Receiver, Brass Plate and Barometer Tube,		6 00
The same, with two Barometer Tubes,		9 00
Suspended Bell, for ringing in Vacuo,		5 00
Glass Globe and Cap, for Weighing Air,		2 50
Bladder Glass, for bursting bladders by Pressure of the Air,		1 00
Hand Glass, for showing Pressure of the Air,		62
Cup and Plate, for Mercury Shower,	1 50 to	2 50
Water Hammers,	75 cts. to	1 25
Condensed Air Fountain, for Forcing Water, with various Jets,	10 00 to	20 00
Lead Weight in Frame, for showing the Elastic Force of Air by Lifting the Weight,		3 00
Revolving Fans and Handle, for Resistance of Air,		75
Balloon and Car, in long glass Jar filled with Alcohol and closed with India Rubber; a pleasing illustration of many of the Laws of Fluids,	2 50 to	4 00
Leslie's Apparatus, for Freezing Water, Receiver, Acid Vessel and Cup,	3 00 to	5 00
Syringe, for obtaining fire by the Compression of Air,		2 00
Receivers for Air Pump, Open and Closed of all sizes,	50 cts. to	4 00

METEOROLOGY.

Barometer, as designed by F. R. Hassler,		35 00
The same, with Rack Work Motion to Vernier, and Green's Screw Adjustment for avoiding the necessity of putting the Fingers in the Mercury of the Cistern in setting up the instrument. Tube five-tenths bore,		45 00
Barometer, as made for J. H. Alexander. In this instrument the Graduation is made on the Glass Tube itself, and read by a Vernier Tube sliding over it: the tube is closed by an Elastic Iron Cistern, preventing the entrance of Air when out of use, at the same time allowing of Expansion and Contraction from changes of temperature with safety to the tube,	25 00 to	35 00
A detailed description of this Barometer is given in Silliman's Journal, vol. xlv. No. 2, Art. 1.		

Green's Barometer with Invariable Line of Level of the Mercury in the Cistern, \$50 00

A detailed account of this Barometer is given in the Transactions of the Maryland Academy of Science and Literature, vol. 1.

Troughton's Tripod Barometer, altered so that the attached Thermometer Bulb is immersed in the mercury of the cistern, 60 00

Smaller size, without the Tripod, 35 00

Syphon Barometer (Bunten's) with two Vernier readings. This is the lightest and most portable of all the forms of the Mountain Barometer, and sufficiently accurate for most service, 35 00

Common Mountain Barometer, 25 00

All the above Barometers are accurately graduated, and read by Vernier to .01.002.001 of the inch, as may be desired: and the Tubes well boiled throughout their length.

Plain Barometers with Thermometer, 12 00

Do. do. do. made portable, 14 00

Same, but more ornamental, 20 00

Wheel Barometers, 15 00 to 25 00

Wollaston Thermometrical Barometer, for Measuring heights, 20 00

Standard Thermometers, made with extreme care, with the degrees divided to fifths, 10 00

Self-registering Thermometers, 3 00

Differential Thermometers, 2 00 to 3 00

Thermometers graduated to 600° Fahr. 3 00 to 5 00

2 Thermometers, wet and dry bulb, for finding the Dew Point, 4 00

Silver Cup and Thermometer for Dew Point, 5 00

Plated do. do. do. do. 3 00

Medical Thermometers, 3 00

Thermometers in glass tube supported in Frame, for outside windows, 4 00 to 5 00

Thermometers, two to four feet in length, with large tubes for easy observation; in Mahogany Frames, 5 00 to 10 00

Small Thermometers, in round wooden or metal cases; safe in travelling and convenient for taking the Temperature of Springs, &c. 2 00 to 3 00

Pocket Thermometers in red cases, 3 to 8 inches long, 1 50 to 2 00

Mantle Thermometers in Ivory and Metal, 2 00 to 6 00

Common Thermometers, 1 00

Mercury and Alcohol Thermometers, with Fahrenheit, Reaumur, and Centigrade scales, in every variety of Form.

Green's Metallic Thermometer or Pyrometer in Silver case; the size of an ordinary watch, 15 00

Thermometers for experimental purposes, made to order.

Rain Guages.

Daniel's Hygrometer, 12 00

Pocket do. 2 50

ELECTRICITY.

Cylinder Electrical Machines, mounted on mahogany stands, 2 Leyden Jars, Glass handle Discharger, Chain and Amalgam. Cylinder 10 inches diameter, 30 00

Do. do. including the same number of pieces, 8 inches diameter, 25 00

Do. do. do. do. 7 do. 20 00

Do. do. do. do. 6 do. 15 00

Large Cylinders, mounted on table, with Negative and Moveable Conductors; a very convenient and powerful form for general experimental use,		\$75 00
Smaller size, mounted in same manner,		50 00
Plate Machines, mounted in the best way. Plate 20 to 30 inches diameter,	80 00 to	150 00
Plate Machines, in plainer manner. Plate 20 to 30 inches dia.	50 00 to	100 00
Plate Machines, from 12 to 18 inches diameter,	25 00 to	50 00
Leyden Jars. 4 quarts,		3 50
Do. do. 3 do.		3 00
Do. do. 2 do.		2 50
Do. do. 1 do. to $\frac{1}{2}$ pint,	1 00 to	2 00
Electrical Batteries, combined of 4, 9 and 12 Jars, of 1, 2 and 4 quarts, in cases,	9 00 to	35 00
Insulated Stools, mahogany top and solid glass legs,	2 50 to	5 00
Leyden Jar, with Lane's Electrometer for regulating the strength of the shock,		3 50
Glass Handle Discharger,		1 75
Do. do. Jointed,	3 00 to	4 00
Do. Directors,		1 50
Electrophorus, Volta's,	3 00 to	8 00
Universal Discharger,	5 00 to	8 00
Electrometer, Quadrant,		1 50
Do. Pith Ball,		50
Do. Lane's Self-Discharging,		2 00
Do. Cuthbertson's Balance,	6 00 to	10 00
Do. Coulomb's Torsion,	12 00 to	20 00
Electroscopes, Bennet's Gold Leaf,	3 00 to	5 00
Do. do. do. with Condenser,		6 00
Do. Pith Balls,		3 00
Do. Haüy's Needle,		2 00
Insulated Brass Conductors, with Rods for Pith Balls, for illustrating Electrical Induction, each,	2 00 to	4 00
Jar with Moveable Coatings, for showing the use of the Coatings on the Leyden Jar,		2 00
Thunder House, with Gas Pistol for exploding, for illustrating the use of Lightning Rods, &c.	3 00 to	5 00
Pyramids, for the same,	1 50 to	3 00
Electrical Cannon, for exploding the Mixed Gases, large,		8 00
Do. Do. do. do. do. smaller,	2 00 to	4 00
Do. Pistol do. do. do.	75 cts. to	2 00
Do. Chime of Bells, 3 and 5,	2 00 to	5 00
Do. Orrery on Insulated Stand,	3 00 to	5 00
Do. do.		1 50
Do. Stand for Dancing Figures,	3 00 to	5 00
Do. Plates do. do.		1 50
Do. Tree with seven Whirls,		5 00
Do. Whirls or Flys,		50
Do. Inclined Plane and Whirl,	3 00 to	6 00
Do. Egg Stand, 4 Glass Rods on brass stand,		3 00
Long Glass Tube for illustrating the Aurora Borealis,	3 00 to	6 00
Glass Globe, with cap and stop-cock, for showing Electricity in vacuo, and its passage through different gases,		6 00

Spiral Spotted Tubes, 2 to 4 feet long,	\$	
Do. do. 5 mounted on stand with revolving rod,		10 00
Spotted Jars,		2 50
Luminous Plates, with Words, Stars, Temples, &c. each,	1 00 to	2 00
Stand for do.		1 75
Head with Long Hair, for repulsion,		75
Tissue Figure, for repulsion,		1 50
Brass Ball and Point, for sparks and silent discharge,		75
Apparatus for showing the relation of Electrical Intensity, to the amount of surface containing a given charge, by altering the extent of surface,		6 00
Insulated Brass Globe, for demonstrating that the Electrical Charge resides on the surface,		5 00
Do. with two Moveable Covers, with Insulated handles,		8 00
Brass Rods, for connecting Apparatus with the Machine,	1 00 to	1 50
Brass Balls and Wires for Leyden Jars, Chain, Amalgam, Mosaic Gold, Pith Balls, Tin Foil, Glass Rods, &c. &c.		

VOLTAIC ELECTRICITY.

Voltaic Pile, 300 Plates contained in Glass Rod Frame,		12 00
Copper and Zinc Plates soldered to Wires, for Couronne de Tasses, doz.		1 00
Wollaston's Trough Battery, 25 pairs, 2 inch,		8 00
Do. do. do. 50 " 2 "		15 00
Do. do. do. 50 " 3 "		20 00
Do. do. do. 100 " 4 "		45 00
Cylinder Batteries, with heavy Zinc for quantity effect,	2 00 to	7 00
Cylinder Constant Batteries for Electrotype, &c.		2 00
Grove's Platinum, and other improved Constant Batteries, to order.		
Apparatus for Decomposition of Water,		1 00
Do. do. do. and collecting the Gases in separate tubes,		2 50
Do. for Metallic solutions,		3 50
Pistol to explode Mixed Gases,		2 50
Cup do. Gunpowder,		75
Stands for Battery Poles, Charcoal Holders, Metal Foil Supports, &c.		

MAGNETISM.

Magnets, Bar.	25 cts. to	1 00
Do. 2 do. in case with Armatures,	2 00 to	4 00
Do. Horse-shoe,	25 cts. to	2 00
Do. do. combined of different powers,	5 00 to	20 00
Armatures, of various forms, for illustration,	25 cts. to	75
Magnetic Needle on Stand, for experimenting,	1 00 to	1 75
Astatic do. do. do.	1 50 to	2 00
Dipping do. for demonstration,	3 00 to	8 00
Magnetical Toys, Fish, Swans, Ships, &c. with Magnet,	50 cts. to	2 00

ELECTRO-MAGNETISM, MAGNETO-ELECTRICITY, &c.

Oersted's Apparatus, for showing the deflection of the Magnetic Needle by the Voltaic current,	2 00 to	3 00
Faraday's Apparatus, showing the Rotation of a Magnet round the pole of the Voltaic battery, and the Rotation of the Pole round the Magnet,		5 00

Ampere's Rotating Battery, round the Magnet,	\$ 5 00
Apparatus for Rotating a Magnet on its own Axis,	4 00
Barlow's Rotating Spur Wheel, with Magnet,	3 00
Electro-Magnets, soft iron, wrapt with insulated copper wire: with small Batteries attached to use in a tumbler,	1 00 to 2 00
Electro-Magnets, suspended from Tripod,	4 00 to 10 00
Do. do. large size made to order.	
Helix on Stand, for the induction of Magnetism in iron bars,	3 00
Ring of copper wire and curved Armatures, lifting 50 to 100lbs.	2 50 to 4 00
De La Rive's Ring and Floating Battery,	1 00
Electro-Magnetic Needle, on Stand,	3 00
Do. do. Machine, for medical use,	10 00 to 12 00
Do. do. do. do. self-acting break,	15 00
Magneto-Electric do. do.	30 00
Do. do. do. do. and decompositions,	40 00
Galvanoscope or Multiplier, for detecting and illustrating the method of increasing the effect of feeble currents,	3 00
Gold Leaf Galvanoscope,	6 00
Ritchie's Revolving Magnet,	5 00
Edmondson's Revolving Armatures, large size,	12 00
Do. do. do. smaller,	5 00
Page's Reciprocating Engine,	12 00
Thermo-Electric Arch, which revolves round a Magnet by heat from a small spiral lamp,	6 00
Voltaic Batteries suitable for Electro-Magnetic Experiments, for \$2, 5 and	7 00

CHEMISTRY.

Pneumatic Cistern, with sliding shelf, copper,	4 00 to 6 00
Do. do. do. and Gas-holders,	20 00
Do. do. do. do. do. with compound Blowpipe, Jet, &c.	30 00
Iron Bottle and connecting tube, for making Oxygen,	3 00
Do. large size, and improved arrangement for making Oxygen, with ease and rapidity, from the Chlorate of Potassa,	18 00
Copper Apparatus, for making Hydrogen in great quantity, as it may be wanted, self-regulating,	10 00 to 14 00
Retort Stands, with four rings, with screw clamps,	3 00
Rings for do. of all sizes,	50
Common Retort Stands,	2 00
Spirit Lamps, in Brass, with Caps,	1 75
Do. Glass, do.	1 00
Do. Tin, do. Argand burner,	1 00
Thermometers of all kinds.	
Thermometer Tubes, for showing the method of Construction,	19
Air Thermometer Tubes,	25
Do. do. on Stand,	1 00 to 2 00
Reflectors of Tin, on Stands, with Iron Ball and Stand,	4 00
Do. Brass, do. do. do.	10 00
Differential Thermometers,	2 00
Do. do. on sliding stand,	3 00
Leslie's Radiator, for showing Radiation from differentially prepared sur- faces,	1 00

Pyrometer, for showing the expansion of metals by heat,	\$3 00 to	8 00
Ball and Ring for do.	do. do.	1 75
Compound Bars, for showing unequal expansion,		75
Conductometers, showing the different conducting powers of the metals; phosphorus is fired in the order of conduction,	\$2 00 to	5 00
Fire Syringe, for latent heat,		2 00
Aphlogistic, or Flameless Lamp,		1 25
Wire Gauze, with handle, for experiments on flame,		50
Davy's Safety Lamp,		5 00
Cryopherus, Wollaston's,	2 00 to	3 00
Boiling or Palm Glasses,		75
Spirit Self-acting Blowpipes,		5 00
Brass Blowpipes, plain and with ivory mouth-piece, . . . . .	. 38 cts. to	62
Do. do. with condensing chamber and ivory mouth-piece,	1 50 to	2 50
Hydrogen Generators, self-regulating, with Jet and bent tube,	4 00 to	8 00
Table Blowpipe, by compressed air, a great convenience where the Blow- pipe is much required,		14 00
Stop-cocks,		1 00
Brass Pipe, for blowing gas bubbles,		75
Bell Glasses, with Cap and Stop-cock, according to size,	2 00 to	4 00
2 large Glass Tubes, filled with coloured Water and Alcohol for relative expansion; mounted on stand,		2 50
Tubes, without the Stand,		1 50
Woullé's Apparatus, of three bottles with three necks, on stand, with ne- cessary tubes,	6 00 to	10 00
Glass Syringes, . . . . .	. 25 cts. to	75
Wedgewood-ware Mortars with Pestles, . . . . .	. 75 cts. to	3 00
Pendant Cups, for burning sulphur in Oxygen,		13
Glass Graduated Measures, . . . . .	. 75 cts. to	1 50
Precipitating Glasses, various sizes, . . . . .	. 25 cts. to	50
Test Tubes, do.	per doz.	1 00
Glass Syphons, S Tubes, Safety Tubes, Dropping Tubes, . . . . .	. 25 cts. to	75
Bell Glasses, plain and stoppered, $\frac{1}{2}$ pint to 6 quarts, . . . . .	. 37 cts. to	2 09
Do. large open tops with ground glass covers,	1 00 to	2 00
Glass Retorts, plain and tubulated, gill to gallon, . . . . .	. 25 cts. to	1 00
Mattresses and Flasks, $\frac{1}{2}$ pint to $\frac{1}{2}$ gallon, . . . . .	. 25 cts. to	75
Glass Tube, of all sizes,	per lb. 75 cts. to	1 00
Stirring Rods,	per doz.	75
Glass Funnels, gill to $\frac{1}{2}$ gallon, . . . . .	. 13 cts. to	75
Cork Borers, thin metallic tubes in handles, very useful for making holes in cork for connecting glass tubes to flasks, &c. assorted sizes, per doz.		2 00
Glass Bottle, with 2 bulbs and long tube, for showing condensation on mixing Alcohol or Sulphuric Acid with water,		1 75
Small size, for the same,		50
Evaporating Dishes, Wedgewood-ware and Glass.		
Gas Bags of India Rubber Cloth, holding from 2 to 30 gallons,	2 00 to	10 00
Glass Alembic, for distillation and sublimation,		2 50
Alkalimeter, for finding the commercial value of Potash, Barilla, Soda, &c.		2 00
Copper Stills, with Condenser and Lamp,	5 00 to	10 00
Graduated Drop Measures, . . . . .	. 75 cts. to	2 00
Small Scales and Weights for weighing,	1 00 to	5 00
Apparatus, for illustrating Specific Caloric, consisting of three Balls of the same weight, but made of different Metals; their Relative Capacity		

for Heat is shown by their raising a given quantity of water to different Temperatures,	\$ 5 00
The same, with three Thermometers,	8 00
Faraday's Tubes, for showing the Condensation of the Gases into Liquids, filled for use,	1 50
Copper and Iron Wire, Pliers and Cutting Nippers.	
Scrap Zinc and other Metals, Platina Wire, Sponge, and most of the articles required in Chemical Manipulation.	

OPTICS AND ASTRONOMY.

One foot three drawers Achromatic Telescope,	7 00 to	8 00
Do. six do. do. do. improved,	12 00 to	14 00
Twenty inch three do. do. do.		10 00
Two feet three do. do. do.		14 00
Do. eight do. do. do. improved,	20 00 to	24 00
Achromatic Day and Night Telescopes, with one, two and three drawers, with and without shades,		
	10 00 to	16 00
Common Telescopes,	2 00 to	5 00
Astronomical Telescopes, on Stands,	60 00 to	100 00
Larger sizes to order.		
Compound Microscopes, with six Powers, sliders filled with objects, and necessary appendages for general use,		
		30 00
Smaller size, with three Powers, &c.		20 00
Do. do. do. do.		15 00
Single Microscope, with three Powers, Reflector, &c.		8 00
Do. do. do. do.	3 00 to	5 00
Single, Double and Triple Folding Magnifiers, for examining Minerals, Flowers, &c.		
	75 cts. to	2 00
Cloth Microscopes,	75 cts. to	1 00
Phantasmagoria Lantern, with set of Astronomical Sliders, large size,		
	35 00 to	40 00
Smaller size,	15 00 to	25 00
Scientific and Comic Sliders, Plain and Moveable, each,	1 00 to	3 00
Camera Obscura,	3 00 to	5 00
Wollaston's Camera Lucida,		10 00
Prisms,	75 cts. to	3 00
Prisms of Crown, Plate and Flint Glass for showing the Refractive and Dispersive Powers of different sorts of glass,		
		5 00
Prisms, mounted on plain and sliding and jointed stands,	3 00 to	8 00
Artificial Eye, to illustrate the optical structure of the Eye; and the formation of Distinct Images, in the Long and Short Sight by applying Convex and Concave glasses,		
		7 00
Set of three Models, illustrating the condition of the Natural, Long and Short-sighted Eye: the Rays of Light represented by variously colored silk strings,		
		12 00
Models for explaining the principles of the Refracting and Reflecting Telescope on same plan, each,		
		6 00
Models on same plan, for explanation of other instruments.		
Apparatus for exhibiting Newton's rings,		3 00
Orrery, on mahogany stand with gilt sun, wheel work, &c.		8 00
Tellurian, or Season Machine,		6 00
Large Orrery, with spring motion, &c.		40 00

Loring's twelve inch globes,	\$30 00
Do. ten do. do.	20 00
Three inch globes,	1 00

MATHEMATICAL INSTRUMENTS.

Theodolites, with one or two Telescopes, Tangent-Screw Adjustments, Parallel Plates and Tripod,	125 00 to 250 00
Levelling Instruments, with Parallel Plates and Tripod, with full Adjust- ments,	150 00
Smaller size and plainer forms,	50 00 to 100 00
Spirit Levels, for Mill-work, &c.	10 00 to 20 00
Do. do. plain, in adjustable brass mountings,	4 00 to 12 00
Circular Spirit Levels, in brass mountings,	4 00 to 5 00
Ground Spirit Levels, without mountings,	1 00 to 4 00
Common do. do. do.	25 cts. to 75
Block Levels, in mahogany, of all lengths,	1 00 to 2 50
Do. do. do. do. with Plumb Level,	3 00 to 5 00
Transit Instrument, as used on Rail Road Work,	140 00
Target and Rod, reading to 1000th of foot,	12 00
Rods and Targets graduated to any Reading.	
Gunter's Measuring Chains, 4 pole,	3 00 to 4 00
Do. do. do. 2 do.	1 75 to 2 00
Chains of 50 and 100 feet of 1 foot Links.	
Surveyor's Compasses,	25 00 to 40 00
Do. do. small size,	15 00 to 20 00
Do. do. with Nonins or Vernier,	35 00 to 50 00
Compasses of any form, made to order.	
Full Sets of Drawing Instruments, of Brass and German Silver, in up- right and flat Cases,	5 00 to 20 00
Small Cases,	2 00 to 4 00
Engineer's Cases, with Beam Compass, &c.	25 00 to 40 00
Dividers, plain, in Brass and German Silver,	25 cts. to 1 50
Do. with Hair Spring and Screw Adjustment,	1 50 to 2 50
Do. Proportional, half and full divided,	8 00 to 14 00
Do. Wholes and Halves,	2 00
Drawing Pens,	50 cts. to 1 50
Instrument for drawing Ellipses, with Pen and Pencil,	3 50
Triangular Compasses,	1 50 to 3 00
Bow Pens and Pencils, Beam Compasses, &c.	
Gunter's Scales, 1 foot and 2 feet,	50 cts. to 75
Do. do. do. in Ivory,	2 00
Sectors, in Box Wood and Ivory,	75 cts. to 2 00
Plain Scales, do. do.	37 cts. to 1 00
Plotting Scales, in Ivory,	2 50 to 3 50
Protractors, in Brass, Ivory and Horn,	50 cts. to 5 00
Scales, in Brass and German Silver, graduated to any number; made to order.	
T Squares, in mahogany,	75 cts. to 2 00
Triangles and Rules, in Glass, Metal and Wood,	50 cts. to 2 00
Graduated Triangles.	
Drawing Pins, with steel points,	per doz. 75
Plumb Bobbs, of Iron and Brass, with Steel Points,	50 cts. to 1 50
Spring and Common Tape Measures of all lengths,	1 00 to 8 00
Gunner's Callipers and Quadrants.	

Pocket Compasses, with Enamel Plates, Agate Centres and Stops: in Silver, German Silver and Gilt,	\$5 00 to	12 00
Do. without Stops,	2 00 to	5 00
Pocket Compasses, in Brass, Ivory and Wood,	1 00 to	2 00
Brass Sextants, with Telescopes, &c.	50 00 to	100 00
Pocket Box Sextants, with Dark Glasses, Telescope, &c.	20 00 to	40 00
Quadrants, Plain, also with Tangent Screws, Telescope, &c.	13 00 to	20 00
Artificial Horizons, Black Glass and Mercurial,	10 00 to	26 00
Sun Dials, in Brass and Marble, made to suit any Latitude,	3 00 to	12 00
Universal Sun Dial, suitable for all Latitudes.		

NAUTICAL INSTRUMENTS, &c.

Azimuth Compass,		30 00
Storm do.		12 00
Steering do. in Brass and Copper, Agate Centres,		5 00
Do. do. in Wood,	2 50 to	2 75
Boat do.	2 00 to	4 00
Tell Tale or Cabin Compass,		10 00
Log Glasses,		75
Hour, half hour and 15 minute Glasses,	1 00 to	1 50
Barometers, with Gympols,	20 00 to	30 00
Sextants, Quadrants and Spy Glasses.		

NAUTICAL PUBLICATIONS.—Bowditch's Navigator, Blunt's Coast Pilot, Shipmaster's Assistant, Heartt's Lunar Tables, Merchants' and Shipmasters Guide, Expeditious Measures, Nautical Almanacs, &c.

Charts of all parts of the world.

MISCELLANEOUS.

Working Models of the Steam Engine—these Engines are easily put in operation, and kept running by 4 and 6 wick Spirit Lamps,	40 00, 60 00, 100 00
Wollaston's Apparatus, in Glass, for illustrating the Condensing Steam Engine,	2 00
Marcet's Apparatus, for exhibiting the relative increase of Temperature and Elastic Force, in Steam above Atmospheric Pressure,	15 00
Eolipile, in Brass and Glass,	37 cts. to 1 50
Oerstead's Apparatus for demonstrating the compressibility of water,	20 00
Delicate Balance, in case,	50 00
Very Delicate Balance, for the most accurate uses, in case,	100 00
Decimal Weights, adjusted from 1000 grains to the 1-100th of a grain: in case with pliers,	10 00 to 15 00
Very accurate copies of U. States Standard Weights, from 2 oz. to the 10,000th of the ounce; in case, with Lifters,	20 00
Standard Length Measures of one, two and three feet.	
Clinometers, for finding the angle of Strata, &c.	5 00 to 15 00
Accoustic Plates and Clamp,	3 00

Apparatus, put up in Sets, for Schools or private use. The Collection will be made to embrace as great a number of Elementary Illustrations, as the specified amount will allow.