

FY 2025 List of Learning Tools and Equipment - Science and Mathematics Equipment

Project Title: **Mass Production, Supply, Delivery, Installation, Training and Maintenance of Science and Mathematics Equipment Packages to Public Elementary Schools for Grades 1 to 3 & Grades 4 to 6, and Public Senior High Schools for Grades 11 to 12 (CORE & STEM) FY2025**

No.	LOT Description / Item Name	Unit	Key Stage 1 - G1toG3	Key Stage 2 - G4toG6	Key Stage 4 - SHSCore	Key Stage 4 - SHSStem
			Quantity per Key Stage			
MASS PRODUCTION						
LOT 1: BLR-DEVELOPED BASIC SCIKIT						
1	BLR-developed Basic Scikit: Ø 9.5mm x 250mm long Stand Rod	pc	0	5	5	5
2	BLR-developed Basic Scikit: Ø 9.5mm x 500mm long Stand Rod	pc	0	5	5	5
3	BLR-developed Basic Scikit: Ø 12.7mm x 1000mm long Stand Rod	pc	0	0	0	5
4	BLR-developed Basic Scikit: Rail	lh	0	0	0	10
5	BLR-developed Basic Scikit: Ring with stem	pc	0	5	5	5
6	BLR-developed Basic Scikit: Test Tube Rack	pc	0	5	5	5
7	BLR-developed Basic Scikit: Wire Gauze	pc	0	5	5	5
8	BLR-developed SCIKIT BASIC 001: Stand Base	assy	0	5	5	10
9	BLR-developed SCIKIT BASIC 001: Stand Support	pc	0	5	5	10
10	BLR-developed SCIKIT BASIC 001: SCIKIT BASIC Storage Case 001 (With Cover and Base Sheathing)	pc	0	1	1	1
11	BLR-developed SCIKIT BASIC 002: Multiclamp	assy	0	5	5	15
12	BLR-developed SCIKIT BASIC 002: Test Tube Holder	pc	0	5	5	5
13	BLR-developed SCIKIT BASIC 002: SCIKIT BASIC Storage Case 002 (With Cover and Base Sheathing)	pc	0	1	1	1
14	BLR-developed SCIKIT BASIC 003: Universal Clamp	assy	0	5	5	5
15	BLR-developed SCIKIT BASIC 003: Universal Bosshead	assy	0	5	5	5
16	BLR-developed SCIKIT BASIC 003: SCIKIT BASIC Storage Case 003 (With Cover and Base Sheathing)	pc	0	1	1	1
17	BLR-developed Free Fall Apparatus (Mechanics 001): Ball Case (with Cover and foam)	pc	0	0	0	5
18	BLR-developed Free Fall Apparatus (Mechanics 001): Digital Timer Assembly (Digital Stopwatch)	assy	0	0	0	5
19	BLR-developed Free Fall Apparatus (Mechanics 001): Metertape with hooks and plastic pointer	assy	0	0	0	5
20	BLR-developed Free Fall Apparatus (Mechanics 001): Ø 12.7mm Steel Spherical Ball	pc	0	0	0	5
21	BLR-developed Free Fall Apparatus (Mechanics 001): Ø 25mm Plastic Spherical Ball with metal screw	pc	0	0	0	5
22	BLR-developed Free Fall Apparatus (Mechanics 001): Ø 25mm Steel Spherical Ball	pc	0	0	0	5

No.	LOT Description / Item Name	Unit	Key Stage 1 - G1toG3	Key Stage 2 - G4toG6	Key Stage 4 - SHSCore	Key Stage 4 - SHSStem
			Quantity per Key Stage			
23	BLR-developed Free Fall Apparatus (Mechanics 001): Pad Switch Assembly	assy	0	0	0	5
24	BLR-developed Free Fall Apparatus (Mechanics 001): Solenoid Assembly	assy	0	0	0	5
25	BLR-developed Free Fall Apparatus (Mechanics 001): Synchro Box Assembly	assy	0	0	0	5
26	BLR-developed Free Fall Apparatus (Mechanics 001): SCIKIT MECHANICS Storage Case 001 (With Cover and Base Sheathing)	pc	0	0	0	5
27	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Cart-spring loaded	pc	0	0	0	5
28	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Cart-with counterweight	pc	0	0	0	5
29	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Cylindrical Mass, 50-gram	pc	0	0	0	25
30	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Driving Mass, 3-gram	pc	0	0	0	25
31	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Leveling Pad Assembly	assy	0	0	0	5
32	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Plastic Hammer	pc	0	0	0	5
33	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Modelling Clay, 1 bar/set	bar	0	0	0	5
34	BLR-developed Dynamics Carts-Rail System (Mechanics 002): Stopper-Fork Assembly	assy	0	0	0	5
35	BLR-developed Dynamics Carts-Rail System (Mechanics 002): String (thin), 1 ball/set	ball	0	0	0	5
36	BLR-developed Dynamics Carts-Rail System (Mechanics 002): SCIKIT MECHANICS Storage Case 002 (With Cover and Base Sheathing)	pc	0	0	0	5
37	BLR-developed SCIKIT MECHANICS 003: 10-Newton Spring Balance	assy	0	0	0	10
38	BLR-developed SCIKIT MECHANICS 003: Friction Block and Friction Board	set	0	0	0	5
39	BLR-developed SCIKIT MECHANICS 003: Leveling Hose	lh	0	0	0	5
40	BLR-developed: User's Manual (SCIKIT MECHANICS)	pc	0	0	0	5
41	BLR-developed: Experiment Module (SCIKIT MECHANICS)	pc	0	0	0	5
LOT 2: BLR-developed SCIENCE AND MATHEMATICS EQUIPMENT (Elem, JHS, & SHS)						
1	BLR-developed Blackboard Compass	pc	0	1	0	0
2	BLR-developed Blackboard Protractor	pc	1	1	0	0
3	BLR-developed Heat Conductivity Apparatus	pc	0	0	0	5
4	BLR-developed Light Source (Single Slit)	pc	0	0	0	5
5	BLR-developed Set of Coils (Transformer)	set	0	0	0	5
6	BLR-developed Variable Power Supply with 5 pcs. Terminal Board	set	0	0	0	5
7	BLR-developed Fresh Water Aquarium with Stand	pc	0	0	1	0
8	BLR-developed: Fraction Set	set	5	5	0	0
9	BLR-developed: Linear Pair/Angle Demonstrator	pc	0	5	0	0
10	BLR-developed: Number Blocks	set	5	0	0	0
11	BLR-developed: Place Value Chart with decimal pockets	pc	0	1	0	0
LOT 3: BLR-DEVELOPED STORAGE CABINETS						

No.	LOT Description / Item Name	Unit	Key Stage 1 - G1toG3	Key Stage 2 - G4toG6	Key Stage 4 - SHScore	Key Stage 4 - SHSStem
			Quantity per Key Stage			
1	BLR-developed Storage Cabinet	pc	0	1	1	1
MARKET ITEMS						
LOT 4: CHEMICALS						
1	Benedict's Solution, 100 mL/bottle	bottle	0	0	1	1
2	Boric Acid, 100 grams/bottle	bottle	0	0	1	1
3	Calcium Chloride, 100 grams / bottle	bottle	0	0	1	1
4	Copper Sulfate, CuSO ₄ , 100 grams/bottle	bottle	0	0	1	1
5	Magnesium Ribbon, 25 grams, 1 roll	roll	0	0	1	1
6	Manganese Dioxide, 50 grams / bottle	bottle	0	0	1	1
7	Phenolphthalein, 100 grams/bottle	bottle	0	0	1	1
8	Potassium Chloride, 100 grams / bottle	bottle	0	0	1	1
9	Potassium Iodide, 100 grams / bottle	bottle	0	0	1	1
10	Sodium Hydroxide (Lye), 250 grams/bottle	bottle	0	0	1	1
11	Zinc Chloride, 100 grams / bottle	bottle	0	0	1	1
12	Zinc metal, pellets/mossy, 100 grams / bottle	bottle	0	0	1	1
LOT 5: GLASSWARES AND LAB TOOLS						
1	Beaker, borosilicate, 250 mL	pc	0	5	5	5
2	Beaker, borosilicate, 50 mL	pc	0	5	5	5
3	Burette, 10 mL capacity (acid)	pc	0	0	0	5
4	Burette, 10 mL capacity (base)	pc	0	0	0	5
5	Burner, Alcohol, glass, 150 mL Capacity	pc	0	5	5	5
6	Burner, Bunsen	pc	0	0	5	5
7	Cork Stopper # 5 (for Ø 16mm test tube)	pc	0	0	0	5
8	Crucible with lid/cover	pc	0	0	0	5
9	Dessicator	pc	0	0	0	5
10	Dish, Evaporating, 75 mL	pc	0	5	0	5
11	Distillation set-up: Condenser, Liebig-type	pc	0	0	0	1
12	Distillation set-up: Distilling Flask, borosilicate, 250ml,	pc	0	0	0	1
13	Double burette clamp/holder	pc	0	0	0	5
14	Electrolysis Apparatus, student-type (Brownlee)	pc	0	0	5	5
15	Flask, Erlenmeyer, borosilicate, narrow-mouth, 250 mL	pc	0	5	5	5
16	Funnel, borosilicate, fluted	pc	0	5	5	5
17	Glass Tubing	pc	0	5	5	5
18	Manometer, Open U-tube	pc	0	0	0	5
19	Mortar and Pestle, porcelain, 150 mL.	pc	0	5	5	5
20	Osmosis Apparatus	pc	0	0	5	5
21	Reagent Bottle, narrow-mouth, amber, borosilicate, 250 mL	pc	0	0	5	5
22	Reagent Bottle, wide-mouth, transparent, borosilicate, 250 mL	pc	0	0	5	5
23	Rubber Stopper # 0 (for Ø 16mm test tube)	pc	0	0	0	5
24	Spatula, spoon, porcelain and glazed	pc	0	5	5	5
25	Stirring Rod, Ø 6 mm x 250 mm long	pc	0	5	5	5
26	Test tube brush	pc	0	5	5	5
27	Test Tube, borosilicate, Ø 16 mm x 150 mm long	pc	0	25	25	25
28	Tong, Crucible	pc	0	0	0	5
29	Vial, screw-neck, 25 ml. (with screw-type plastic cap)	pc	0	25	25	25
30	Vial, screw-neck, 50 mL. (with screw-type plastic cap)	pc	0	25	25	25

No.	LOT Description / Item Name	Unit	Key Stage 1 - G1toG3	Key Stage 2 - G4toG6	Key Stage 4 - SHSCore	Key Stage 4 - SHSStem
			Quantity per Key Stage			
31	Volumetric Flask, borosilicate 250 mL	pc	0	0	5	5
32	Watch Glass, Ø 90 mm	pc	0	5	5	5
33	Water test kit	kit	0	0	0	5
LOT 6: SCIENCE DEVICES, INSTRUMENTS, AND MEASURING TOOLS - MATTER						
1	Balance, Toploading, Electronic	pc	0	0	5	5
2	Balance, Triple Beam, with tare, 2610-gram	pc	0	0	5	5
3	Calorimeter	pc	0	0	5	5
4	Centrifuge	pc	0	0	0	5
5	Digital pocket thermometer	pc	0	0	5	5
6	Electrical Conductivity (Conductivity of Solutions) Apparatus	pc	0	0	5	5
7	Filter Paper, crepe, 580mm x 580 mm sheet, Grade 0905	sheet	0	5	5	5
8	Gloves, Hand, super nitrile	pair	0	5	5	5
9	Graduated Cylinder, borosilicate, 10 mL	pc	0	5	5	5
10	Graduated Cylinder, borosilicate, 100 mL	pc	0	5	5	5
11	Graduated pipette with rubber pipettor, borosilicate, 10 mL	pc	0	0	5	5
12	Hydrometer for heavy liquids	pc	0	0	0	5
13	Hydrometer for light liquids	pc	0	0	0	5
14	Laboratory Hot Plate with magnetic stirrer	pc	0	0	5	5
15	pH meter, hand-held, digital	pc	0	0	5	5
16	Safety Goggles, polycarbonate	pair	0	5	5	5
17	Thermometer, Laboratory type, Alcohol, -20°C to 110°C	pc	0	5	5	5
18	Universal pH indicator	pc	0	0	5	5
19	Water Quality Meter/Tester 5 in 1 (TDS/ pH/EC/ salinity/ temperature)	pc	0	0	2	2
LOT 7: SCIENCE DEVICES, INSTRUMENTS, AND MEASURING TOOLS - EARTH & SPACE and LIVING THINGS						
1	Anemometer with Wind Vane, Cup type	pc	0	1	0	0
2	Barometer-Thermometer-Humidity (3-in-1 Analog Instrument)	pc	0	1	0	0
3	Compass, Magnetic	pc	0	5	0	0
4	Dissecting Set with pan	set	0	0	0	5
5	Gloves, Surgical	pair	0	0	0	10
6	Hand Lens, 10x magnification	pc	0	0	5	0
7	Hand Lens, 5x magnification	pc	5	5	0	5
8	Microscope, Digital	pc	0	0	1	1
9	Pipette, Beral, 1 mL	pc	0	0	0	50
10	Protein Synthesis Demonstration Set	set	0	0	1	1
11	Rain Gauge	pc	0	1	0	0
12	Reaction Plates with 6 Wells	pc	0	0	5	0
13	Sedimentator Tube	pc	0	5	0	0
14	Soil pH, Moisture, Sunlight Meter	pc	0	0	5	0
15	Soil/Test Sieve	pc	0	1	0	0
16	Tong, Beaker	pc	0	5	5	5
17	Wash bottle, plastic, 250 mL	pc	0	5	5	5
LOT 8: MATHEMATICAL MANIPULATIVES						
1	Base Ten Blocks	set	5	5	0	0
2	Beads	set	1	0	0	0
3	Circle Area Demonstrator	pc	0	1	0	0
4	Compass, Drawing, student type	pc	0	40	0	0
5	Cuisenaire Rods, set of 5	set	1	0	0	0

No.	LOT Description / Item Name	Unit	Key Stage 1 - G1toG3	Key Stage 2 - G4toG6	Key Stage 4 - SHSCore	Key Stage 4 - SHSStem
			Quantity per Key Stage			
6	Elapsed Time (Clock) Set	pc	1	0	0	0
7	Geoboard, 11 x 11	pc	0	10	0	0
8	Geoboard, 5 x 5	pc	10	0	0	0
9	Geostrips	set	5	5	0	0
10	Ghost Grid Whiteboard, Mobile Magnetic	unit	1	1	1	1
11	Linking Cubes	set	5	5	0	0
12	Model, Basic 3D Geometrical Collapsible	set	0	5	0	0
13	Model, Basic 3D Geometrical Solids	set	0	1	0	0
14	Pattern Blocks, 250 pcs/set	set	2	2	0	0
15	Pentominoes	set	5	5	0	0
16	Plastic Two-colored Counters, 1-inch diameter, 200 pcs/set	set	5	0	0	0
17	Probability Kit	set	1	0	0	0
18	Square Units/Tiles, plastic	set	3	0	0	0
19	Tangrams, set of 30	set	0	1	0	0
LOT 9: MATHEMATICAL TOOLS & INSTRUMENT						
1	Balance, Double-pan	pc	5	0	0	0
2	Calculator, Graphing, non-projectable	pc	0	0	5	5
3	Calculator, Scientific	pc	0	0	40	40
4	Digital Clock, tabletop	pc	0	1	0	0
5	Measuring Kit (Volume)	set	1	0	0	0
6	Meterstick, plastic	pc	20	20	0	0
7	Protractor (for student)	pc	40	40	0	0
8	Ruler, Plastic, 30 cm/300 mm	pc	40	40	0	0
9	Scale, Spring, Hanging type	pc	1	0	0	0
10	Scale, Weighing, analog, 10 kg. capacity	pc	1	0	0	0
11	Scale, Weighing, bathroom-type	pc	1	0	0	0
12	Tape Measure, 1.5 meters	pc	20	20	0	0
13	Template, shapes	pc	5	0	0	0
LOT 10: MODELS: EARTH AND OTHER HEAVENLY BODIES						
1	Globe, Celestial	pc	0	5	0	0
2	Globe, Terrestrial	pc	0	5	0	0
3	Model, Tectonics Demonstrator	kit	0	0	1	0
4	Model, Volcano, cross section	pc	0	0	1	0
5	Rock Samples, 24 pcs/set, (minerals of 3 rock types)	set	0	1	0	0
6	Telescope, Astronomical (Reflecting)	pc	0	0	1	0
LOT 11: MODELS: THE HUMAN ANATOMY						
1	Model, Human Circulatory System	pc	0	1	1	0
2	Model, Human Endocrine System	pc	0	0	1	0
3	Model, Human Nervous System	pc	0	0	1	0
4	Model, Human Nose (Nasal-Throat Anatomy)	pc	0	1	0	0
5	Model, Human Skeleton	pc	0	1	0	0
6	Model, Human Torso	pc	0	1	1	0
7	Model, Lung Demonstration	pc	0	1	0	0
8	Model, Pumping Heart	pc	0	1	0	0
9	Model, Reproductive System, Female (Pelvic Anatomy)	pc	0	1	0	0
10	Model, Reproductive System, Male	pc	0	1	0	0
11	Model, Human Digestive System	pc	0	1	0	0
LOT 12: MODELS: OTHER BIOLOGICAL STRUCTURES AND SPECIES						
1	Model, Animal Cell	pc	0	0	0	1
2	Model, Animal Meiosis	set	0	0	0	1

No.	LOT Description / Item Name	Unit	Key Stage 1 - G1toG3	Key Stage 2 - G4toG6	Key Stage 4 - SHSCore	Key Stage 4 - SHSStem
			Qty per Key Stage			
3	Model, Animal Mitosis	set	0	0	0	1
4	Model, Chloroplast	pc	0	0	0	1
5	Model, DNA	pc	0	0	0	1
6	Model, Invertebrates	set	0	5	0	0
7	Model, Mitochondrion	pc	0	0	0	1
8	Model, Plant Cell	pc	0	0	0	1
9	Model, Vertebrates	set	0	5	0	0
LOT 13: MODELS: MOLECULAR GEOMETRY						
1	Model, Atomic Orbital, 82-pc	set	0	0	5	5
2	Model, Biochemistry Molecular, (262 atom parts)	set	0	0	5	5
3	Model, Crystal Structures Set (Graphite, diamond, sodium chloride, carbon dioxide)	set	0	0	5	5
4	Model, Molecular, Inorganic/Organic (307-pc)	pc	0	0	5	5
5	Model, Sublevel Orbitals of the Atom (Quantum)	pc	0	0	5	5
6	Model, VSEPR, 14 shapes (50-pc)	pc	0	0	5	5
7	Models, Organic Stereo-chemistry Molecular	set	0	0	0	5
8	Molecular Orbital Organic Structures Set 4 Models Collection Set (Benzene, Ethane, Ethene & Ethyne)	set	0	0	0	5
LOT 14: FORCE, MOTION, AND ENERGY KITS						
1	Advanced Electromagnetism Kit	kit	0	0	0	5
2	Air Blower	pc	0	0	0	1
3	Archimedes Principle Set	set	0	0	0	5
4	Basic Electronics Kit	kit	0	0	0	5
5	Basic Lens Set, acrylic	pc	0	0	5	5
6	Coefficient of Linear Expansion	pc	0	0	0	5
7	Connector, Black (# 18 copper, AWG stranded) with alligator clip on one end and banana plug on the other end	pc	0	15	0	20
8	Connector, Red (# 18 copper, AWG stranded) with alligator clip on one end and banana plug on the other end	pc	0	15	0	20
9	Connector, Yellow (# 18 copper, AWG stranded) with alligator clip on one end and banana plug on the other end	pc	0	15	0	20
10	DC Ammeter	pc	0	0	0	5
11	DC String Vibrator, string included	pc	0	0	5	0
12	DC Voltmeter	pc	0	0	0	5
13	Diffraction slits & Diffraction grating Set	set	0	0	5	5
14	Digital Geiger-Muller Counter with radioisotopes samples	set	0	0	0	1
15	Dry Cell Holder (size D)	pc	0	10	0	20
16	Dry Cell, 1.5 volts, size D	pc	0	20	0	20
17	Engine Model (Internal Combustion)	pc	0	0	0	5
18	Flask, Florence, glass, 500 mL	pc	0	0	0	5
19	Force Table	pc	0	0	0	5
20	Fuse Holder w/ Fuse	pc	0	0	0	5
21	Galvanometer	pc	0	0	0	5
22	Helical Spring	pc	0	0	0	5
23	Iron Core Rod (non-corrugated)	pc	0	5	0	0
24	Laser Light	pc	0	0	5	0
25	Long Nose Pliers, 1 pair/set	pc	0	5	0	0

No.	LOT Description / Item Name	Unit	Key Stage 1 - G1toG3	Key Stage 2 - G4toG6	Key Stage 4 - SHSCore	Key Stage 4 - SHSStem
			Quantity per Key Stage			
26	Magnet Wire	spool	0	5	0	0
27	Manometer, Open U-tube with Nakamura-type Water Pressure Apparatus	pc	0	0	0	5
28	Miniature Light Bulb	pc	0	0	0	15
29	Miniature Light Bulb Holder	assy	0	0	0	15
30	Multimeter, digital	pc	0	0	0	5
31	Optical Bench Set	set	0	0	5	0
32	Pair of Bar Magnets	pair	0	5	0	0
33	Prism Set	set	0	0	5	5
34	Resistance Board	pc	0	0	0	5
35	Ring and Ball Apparatus	pc	0	0	0	5
36	Ripple Tank Set	set	0	0	5	0
37	Slinky Coil, metal	pc	0	0	0	5
38	Sound Resonance Set: Resonance Tube, close-ended	pc	0	0	0	5
39	Switch, Knife type, Single Pole Single Throw	pc	0	0	0	5
40	Toy Car, non-friction, non-battery	pc	0	5	0	0
41	Tuning Fork Set	pc	0	0	0	5
42	Vacuum Tube and Manual Vacuum Pump	set	0	0	5	0