

### ANNEX 3: COMPOSITION OF A SCIENCE KIT

s/n	Item Description	Specifications	Quantity
1.	Concave Mirror – 15 cm	15 cm diameter-System International	5
2.	Concave Mirror – 10 cm	10 cm diameter-System International	5
3.	Concave Mirror – 5 cm	5 cm diameter-System International	5
4.	Convex Mirror – 15 cm	15 cm diameter-System International	5
5.	Convex Mirror – 10 cm	10 cm diameter-System International	5
6.	Convex Mirror – 5 cm	5 cm diameter-System International	5
7.	Concave Lens – 15 cm	15 cm diameter-System International	5
8.	Concave Lens – 10 cm	10 cm diameter-System International	5
9.	Concave Lens – 5 cm	5 cm diameter-System International	5
10.	Convex Lens – 15 cm	15cm diameter-System International	5
11.	Convex Lens – 10 cm	10 cm diameter-System International	5
12.	Convex Lens – 5 cm	5 cm diameter-System International	5
13.	Semi Circular Glass Block	80 x 15 millimeter- System International	5
14.	Triangular glass prism	60 x 60 x 60- System International	5
15.	Rectangular glass prism	100 x 60 x 18 millimeter- System International	5
16.	Rheostat (20)	20 Ohms 2.3 Amps-System International-ACCU	2
17.	Rheostat (50)	50 Ohms 1.6 Amps-System International-ACCU	2
18.	Rheostat (100)	100 Ohms 1.2 Amps-System International-ACCU	2
19.	Pendulum Bob	3/4" with Hook, Brass	5
20.	Screw Jack	Metallic Body	4
21.	Drawing Pins	Standard	1
22.	Optical Pins	75millimetres x 8millimetres Grose	1
23.	Density Bottle Glass	25 milliliters with Stopper	2
24.	Measuring cylinder	50 milliliters Plastic, Hexagonal Base	5
25.	Graduated dropping pipette – 25 mm	Plastic – 25 milliliters	5
26.	Graduated dropping pipette – 20 mm	Plastic – 20 milliliters	6
27.	Student Microscope	Complete piece with : <ul style="list-style-type: none"> <li>• An inclined tube</li> <li>• Magnification range x4, x20, x40, x100, x400, OBJ, 10X E.P.</li> <li>• In Thermocol Box Made of System International Approval</li> <li>• Locked on eye piece and stage clips</li> <li>• Coarse focus slip-clutch and a focus stop;</li> <li>• Achromatic objectives 4x(0.10), 10x(0.25), 40x(0.65);</li> <li>• 6 hole disc diaphragm; separate coarse and fine focusing;</li> <li>• Plano Concave mirror;</li> <li>• 110x eye-piece with pointer;</li> <li>• Built in 230v 20W illumination.</li> <li>• To be supplied with 1packet of 50 Microscope slides plain nominal thickness 1.00 mm; extra white glass;</li> <li>• Ground on all edges</li> </ul>	1
28.	Clinical thermometer	0-45°C	2
29.	Electric bell	3-9 DC operated	2
30.	Hand Lens	Small 2" diameter metal	2
31.	Hand Lens	3" diameter metal	2

s/n	Item Description	Specifications	Quantity
32.	Dissecting Kit – All in Stainless Steel with Pouch	Complete set comprises of: <ul style="list-style-type: none"> <li>• Forceps 125millimetres, straight fine points</li> <li>• Forceps 125 millimeters, curved fine points</li> <li>• Forceps 125 millimeters, straight, blunt tips</li> <li>• Scapel blade 38millimetres</li> <li>• Scapel blade 45 millimeters</li> <li>• Scapel blade 50 millimeters</li> <li>• Scissor 115millimetres straight fine points</li> <li>• Scissor 125millimetres straight fine points</li> <li>• Scissor 125, curved, fine points</li> <li>• Dissecting needle 140millimetres</li> <li>• Needles, stainless steel</li> <li>• Section lifter 150millimetres</li> <li>• Needle 95millimetres, stainless steel</li> <li>• Seeker</li> <li>• Section cutting razor, stainless steel</li> </ul>	1 1 1 5 1 1 1 1 1 1 2 1 1 1 1
33.	Masses (10g)	Slotted Brass (10grammes)	10
34.	Masses (20g)	Slotted Brass (20grammes)	10
35.	Masses (50g)	Slotted Brass (50grammes)	10
36.	Masses (100g)	Slotted Brass (100grammes)	10
37.	Mass Hungers	To accommodate 16 weights of 50grammes each	10
38.	Thermometer	(10-110)°C with colored mercury	2
39.	Thermometer	(10-110)°C with non-colored mercury	2
40.	Bunsen burner	88millimetre base, 165millimetre height, for use with butane/propane, inlet tube 13mm O.D., burner head diameter 9 mm, supplied with tube.	4
41.	Gas cylinder (6 litres)	With cylinder heads	1
42.	Iron fillings	250grammes in plastic bottle	1Kilogramme
43.	Vernier Caliper in velvet case	5" with 1/10centimetre graduation, 1/100centimetre vernier, 1/16" graduation on other side, 1/128" vernier	2
44.	Bar magnet	(5.0 x 1.5 x 1.0)centimeter	2
45.	Semi-circular magnet	2"	2
46.	Mortar and pestle	75millimetre	1
47.	Ammeter	0-5A on stand with 2 terminals - System International Approval	2
48.	Ammeter	0-1A on stand with 2 terminals –System International Approval	4
49.	Voltmeter	0-5V on stand with 2 terminals - System International Approval	2
50.	Voltmeter	0-3V on stand with 2 terminals –System International Approval	4
51.	Electronic DC balance	100 gramme capacity brass	1
52.	Stop clock	Fly back action with start and stop level ½ least count	5
53.	Stop watch	10"	
54.	Barometer	4"	4
55.	Measuring cylinder (100)	100millilitres bocilicate glass	2
56.	Measuring cylinder (50)	50 milliliters bolocilicate glass	2
57.	Measuring cylinder (500)	500 milliliters bolocilicate glass	2
58.	Spiral spring (nuffield)	Anodized	5
59.	Spring balance	In plastic case 1kilogramme capacity	5
60.	Crocodile clips	Brass	10
61.	Crocodile Jockeys	In bakelite and brass terminal	5

s/n	Item Description	Specifications	Quantity
62.	Switch plugs	One way base	5
63.	Copper calorimeter	Copper vessel 50 x 75mm in wooden with stirrer	3
64.	Micrometer screw gauge	15millimetres in plastic case, 10/100 inches metric in numbered, ratchet and chrome screw.	4
65.	Gold leaf electroscope	With scale	1
66.	Triple beam balance	111 SM capacity sensor or 1kilogramme	1
67.	Ticker timer	D.C operated 12volt - System International Approval, with 1 tape roll, 50 carbon Disc	1
68.	Tapes	Tape rolls	5
69.	Ear model	Mounted on board 6'' X 12', 3D view, semi-circular canals, cochlea is DE with detachable inner and middle ear components, presented in a cross-section along entire length.	1
70.	Heart Model	3D view, detachable in 2 parts on stand, twice life size, dissected to expose both atria and ventricles, numbered features with identification key.	1
71.	Eye model	Divisible in 7 parts, cornea, retina, yellow spots, blind spots clearly shown, complete on stand, four times life size, showing full cross-section of eye.	1
72.	Human skelton	Full life size (minimum height 1700mm) with wheeled stand, hardened plastic material with a feel and appearance of real bone.	1
73.	Unisex human torso	With the following removable parts:- head, lungs, heart, liver, stomach intestinal tract, kidney, bladder. Minimum height 750mm.	1
74.	Cell holder single	Single	2
75.	Cell holder double	Double	6
76.	U-tuber manometer	250millimetres mounted on wooden base	1
77.	Resistance wire (Nicrom & Constant)	Nichrom 100grammes reel , constantan 100grammes reel	4
78.	Droppers	Glass with rubber	2
79.	Petri dishes	Plastic 3" diagonal	10
80.	Boiling tubes	15'' X 150'' glass	20
81.	Wash bottles	250 milliliters plastic	10
82.	Tripod stand	6 x 4 with moulded frame	5
83.	Van-de-graph generator, hand operated mounted on wooden base - SI approved	With accessories, head of hair, comb, faraday pil near bulb, vibrating column in plastic container, spare belt, tester electric whirl	1
84.	Alcohol Thermometer	10-110°C	2
85.	Plotting Compass	2" diagonal metal body	3
86.	Flat bottomed flask	250millilitres borosilicate glass	5
87.	Round bottomed flask	250millilitres borosilicate glass	5
88.	Filter funnel (Plastic)	3" diagonal plastic	5
89.	Filter paper	15 centimeters diameter packets	5
90.	Reagent bottle	125millilitres capacity with screw neck cap	5
91.	Wire gauge	metal frame size 6millimetre x 6 millimeter	5
92.	Evaporating dish	7millimetres	5
93.	Leibig Condenser	300millimetres borosilicate glass	4
94.	Separating Funnel	250millilitres borosilicate glass	4
95.	G-Clamp	2'' metal	5

s/n	Item Description	Specifications	Quantity
96.	G-Clamp	3" metal	5
97.	G-Clamp	4" metal	5
98.	Ripple tank complete with the accessories duly SI approved	Complete set comprising 1 tank with transparent base, 4 legs with levelling screw, 1 motor vibrator, 2 spherical dippers attached with motor, 1 glass object, 1 dropper, 6 suspension bands , light source provided with halogen, lamp (6v/12v) & direct main operated Lan, 1 sponge for cleaning, 1 aluminium 'I' bend-45 x 25mm, 1 aluminium 'I' bend-75 x 25mm, 1 'c' strip-170 x 25mm, 1 hollow plastic pipe (100mm roller), 1 rod with hanging hooks, blocks and rods for support.	1
99.	Constantine Wire 5 milligramme 2832	In 100gramme rolls packing	2
100.	Pulley	2' diameter metal body: Single	5
101	Pulley	2' diameter metal body: Double	
102	Retort Stand	7' x 5' base 9millimetre rod 20' long with retort clamp, complete kit packed in a metal case	5
103	Burette	50 milliliters	10
104	Conical flasks	250 mililiters	100
105	Conical flasks	100 mililiters	5
106	Beakers (plastic)	250 mililiters	20
107	Beakers (plastic)	100 mililiters	5
108	Volmetric flasks	250 mililiters	5
109	Volmetric flasks	500 mililiters	1
110	Test tubes	10 milliliters	144
111	Boiling tubes	20 milliliters	100
112	Frachonalising columns		2
113	Test tube holders	metallic	20
114	Eye goggles	Plastic	20
115	Storage Box (Wooden)	100cm long x 75cm x 75cm (For Screw, Masses, Burner, Cylinder, Triple Beam, Models, Skelton, Vande Graph, Ripple Tank, Retort Stand, G Clamp Etc)	1
116	Storage Box (Wooden)	80cm x 75cm x 60 cm (For Others Items)	1