

## Annexure 1

### TECHNOLOGY : GRADE 7 - 9

#### CAPS COMPLIANT SPECIFICATIONS

Description	Unit	Qty
Battery 1.5V Size D	each	10
Battery AA 1.5V	each	10
Battery Holder Black Small	each	5
Battery Holder Large Single Cell	each	10
Battery Snap with Crocodile Clips	each	5
Beaker Borosilicate Glass 250ml	each	5
Beam 400mmx50mm & Gusset (4 & 8 per set)	set	10
Brass Paper Fasteners Nr5	each	50
Brass Rod 3mmx132mm	each	5
Brass Rod 3mmx88mm	each	5
Brass Winch Handle 50mm	each	5
Bulb 3.8V	each	20
Buzzer	each	10
Cam Red	each	10
Capacitor 1000 uf	each	10
Circuit Board Connectors Metal	each	10
Circuit Board Switch	each	10
Clip Mohr 50mm	each	5
Coil Copper Enamel Coated 5m	each	5
Connecting Pin 18mm (Nr6)	each	200
Connecting Pin 27mm (Nr12)	each	50
Connector Block Strip 12 Terminal	each	5
Connector -T3 Way (3mm OD)	each	10
Copper II Sulphate 500g	each	1
Electrode Plate Copper 100mmx19mm	each	5
Gear 12T (Yellow)	each	10
Gear 18T (Yellow)	each	10
Gear 36T (Yellow)	each	10
Gear 72T (Yellow)	each	10
Gear 90° 20T (Green)	each	10
Gear 90° 60T (Green)	each	10
Gear Rack (Yellow)	each	10
Gear Worm (Green)	each	10
Glue 500ml	each	1

**TECHNOLOGY : GRADE 7 - 9****CAPS COMPLIANT SPECIFICATIONS**

Description	Unit	Qty
Iron Filings 50g	each	1
Lead + Croc Clips Black 30cm	each	5
Lead + Croc Clips Red 10cm	each	10
Lead + Croc Clips Red 30cm	each	5
LED 5mm Red Round 2V	each	10
Magnet Bar (Alnico) 75mm	pair	2
Material Calico	metre	2
Nail 100mm	each	5
Nail 40mm	each	10
Nuts & Bolts 4mm (Steel Zinc Plated)	each	100
Paper Clips (Metal)	P100	1
Pipe Cleaners	each	50
Prestik	100g	1
Pulley Clear 20mm	each	10
Pulley Clear 45mm	each	10
Resistor 10 kOhm	each	10
Resistor 2.2 kOhm	each	10
Resistor Photosensitive	each	10
Resistor Thermosensitive	each	10
Rubber Bands Nr10	100g	1
Rubber Bands no 19	100g	1
Scissors Small	each	5
Screwdriver Flat Pocket Size	each	5
Silicone Tube 5m	each	1
Spatula Spoon End	each	1
Spring 6mmx20mm	each	100
Straws	each	100
String 50g	roll	1
Syringe 5ml	each	10
Syringe 10ml	each	10
Syringe 20ml	each	10
Technoblock Blue 132mmx88mm	each	30
Technoblock Red 132mm	each	30
Technoblock Yellow 88mm	each	30

**TECHNOLOGY : GRADE 7 - 9****CAPS COMPLIANT SPECIFICATIONS**

Description	Unit	Qty
Template Grid Isometric 0.5cm	each	50
Template Grid Isometric Dotted 0.5cm	each	50
Template Grid Oblique 0.5cm	each	50
Template Grid Orthographic 0.5cm	each	50
Transistor NPN	each	10
Valve Non-Return	each	10
Valve Tubing 10cm	each	5
Wheel Black	each	20
Wire Black 10m	each	1
Wire Red 10m	each	1
CD Technology A Guide to Graphical Communication	each	1
CD Technology Structures	each	1
CD Technology Mechanical Systems & Control	each	1
CD Technology Electrical Systems & Control	each	1
Manual - A Guide to Graphical Communication	each	1
Manual - Structures	each	1
Manual - Mechanical Systems & Control	each	1
Manual - Electrical Systems & Control	each	1
Container Plastic Clear 13L	each	2
Container Plastic Clear 20L	each	1
Container Plastic Black 110L	each	1

NATURAL SCIENCES : GRADE 8 & 9

CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
20E088	LIGHT KIT: ( complete kit)	KIT	
Code	Description	Unit	Qty
	Colour Card	each	1
	Colour Filter Tricolour - Slide	each	1
	Colour filters - Slides	each	7
	Concave Lens	each	1
	Convex Lens	each	1
	Gates set of Double, Single, Triple + Wide	set	1
	Lead Croc to Croc Clips Black 30cm	each	1
	Lead Croc to Croc Clips Red 30cm	each	2
	Mirror on Wood Base 30mm x 30mm x15mm	each	2
20E082	Mirror on Wood Base with V Notch 100mm x 30mm x15mm	each	1
	Perspex Rectangle 70mm x 50mm x20mm	each	1
	Perspex Semi Circular 80mm x 20mm	each	1
	Perspex Strips set of Black, Clear + Orange	set	1
	Perspex Triangle 55mm x 20mm	each	1
	Perspex Triangle 90° 100mmx70mmx70mmx20mm	each	1
	Protractor	each	1
	Raybox	each	1
	Spare Bulb for Raybox	each	1
	Trough	each	1
55E294	Power Supply 6V/12V AC/DC	each	1

45E1150	RESOURCE KIT	KIT	
Code	Description	Unit	Qty
70E429	Balloons Medium	each	20
70E1391	Bead Round 20mm - Blue	each	1
70E1392	Bead Round 20mm - Green	each	1
70E1390	Bead Round 20mm - Red	each	1
70E1393	Bead Round 20mm - Yellow	each	1
70E007	Beaker Glass 100ml	each	10
70E008	Beaker Glass 250ml	each	10
70E249	Beaker Plastic 100ml	each	10
70E369	Beaker Plastic 250ml	each	10
70E349	Beaker Plastic 500ml	each	10
55E372	Bio Viewer	each	1
55E378	Bio Viewer Slide Strips (set of 7 slides)	set	1
60E870	Brass Rod 6mm x 110mm	each	1
55E926	Brownlee Water Electrolysis Apparatus with jar	each	1
55E343	Burette Clamp Double	each	2
55E221	Burette Glass Pinchcock + Jet 25ml	each	2

NATURAL SCIENCES : GRADE 8 & 9

CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
55E104	Burette Glass Stopcock 25ml	each	2
55E307	Burette Stand Porcelain Base	each	2
70E1414	Burette Upright	each	2
55E543	Burner Spirit Glass 125ml	each	5
70E400	Buzzer	each	1
55E444	Chart : Aids Poster	each	1
55E1217	Chart : Energy Non-Renewable resources	each	1
55E1216	Chart : Energy Renewable resources	each	1
55E557(2)	Chart : Laboratory Safety	each	1
55E557(1)	Chart : Laboratory Techniques	each	1
55E194	Chart : Periodic Table	each	1
55E685	Chart : Planets	each	1
55E681	Chart : Solar system	each	1
55E1049	Chart : Stars	each	1
55E1259	Chart 3D : Ear	each	1
55E1260	Chart 3D : Eye	each	1
55E1263	Chart 3D : Human Reproductive Organs - male and female	each	1
55E1262	Chart 3D : Human Reproductive Organs - showing baby	each	1
55E1261	Chart 3D : Human Reproductive Organs - showing Fertilization	each	1
55E1264	Chart 3D : Typical Animal Cell	each	1
50E002	Comboplate	each	20
70E090	Compass Small Plotting	each	1
55E975	Conductometer	each	1
55E051	Dissecting Set 7 piece	each	1
55E100	Electroscope Gold Leaf	each	1
55E254	Evaporating Dish Porcelain 250ml	each	1
70E891	Filter Paper 15cm P100	P100	1
70E038(S50)	Filter Paper 4.8cm P50	P50	1
55E257	Flask Conical Narrow Neck 250ml	each	10
70E1092	Funnel Plastic 75mm clear	each	10
70E211	Funnel Plastic small	each	20
70E354	Gloves Disposable Medium	each	20
55E510	Kinetic Theory Model	each	1
55E321	Laboratory Coat	each	1
55E752	Laminated Sheets A4 with Images of Torso/Organs (2 sheets)	set	5
70E044	LED (red)	each	1
70E275	Lid Stopper	each	20
70E306	Magnet Bar Alnico 75mm	pair	2
50E012	Magnifying Glass 32.5mm	each	20
70E242	Marker Pen (Washable) Black Medium	each	1
70E053	Matches	box	1
70E860	Material Silk	each	1

NATURAL SCIENCES : GRADE 8 & 9

CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
70E587(1)	Material Wool	each	1
55E1081	Materials Kit Solids - Mini	each	1
55E126	Measuring Cylinder Plastic 100ml	each	5
70E225	Medical Gauze 75x75mm	P100	1
25E035	MicroLife Water Quality Testing Kit	each	1
55E054	Model : Ear - 5 parts 4 times enlarged	each	1
55E055	Model : Eye - 6 parts 5 times enlarged	each	1
55E1084	Oersted's Apparatus	each	1
70P013	Periodic Table (Pocket Size)	each	40
70E068	Petri Dish plastic 90mm	each	20
70P149	Photomicrographs Laminated Set of 9	set	1
70E083	Prestik	100g	1
60E061(S100)	Propette Thin Stem Transfer 3ml	P100	1
60E109	Respiratory Apparatus complete	each	1
55E297	Retort Ring Clamp 100mm	each	2
70E559	Retort Stand Boss Head Double	each	1
70E560	Retort Stand Clamp	each	1
50E016	Retort Stand Cross Arm small	each	20
70E1322	Retort Stand Upright & Base	each	1
50E017	Retort Stand Upright small	each	20
70E745	Rod Glass 6mm x 15cm	each	1
70E882	Rod Glass 6mm x 20cm	each	5
60E871	Rod Iron 6mm x 110mm	each	1
70E1060	Rod Perspex 6mm x 110mm	each	1
70E1126	Rod PVC 6mm x 110mm	each	1
70E394	Rubber Bands Nr19	100g	1
70E229	Rubber Stopper Nr 13 (for 16mm test tube)	each	1
70E231	Rubber Stopper Nr 13 + 1x4mm hole (for 16mm test tube)	each	1
70E182	Rubber Stopper Nr 19+1x8mm Hole	each	1
70E794	Rubber Stopper Nr 21 (for 24mm test tube)	each	1
70E795	Rubber Stopper Nr 21 + 1x6mm hole (for 24mm test tube)	each	1
70E796(7)	Rubber Stopper Nr 27 (for boiling & conical flask)	each	1
70E1507	Rubber Stopper Nr 27 + 1x6mm hole (for boiling & distillation flask)	each	1
70E1508	Rubber Stopper Nr 27 + 2x6mm hole (for boiling & distillation flask)	each	1
70E792	Rubber Stopper Nr 29 + 1x6mm Hole	each	1
70E1005	Rubber Stopper Nr 31 + 1x6mm hole (for bell jar 150mm)	each	1
70E406	Safety Glasses	each	10
70E168	Scissors large	each	1
50E022	Spatula & Forceps set of 9	each	20
55E397	Spatula Metal spoon end 15cm	each	5
55E053	Stethoscope	each	5
70E101(S25)	Straws	P25	1

NATURAL SCIENCES : GRADE 8 & 9

CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
		each	5
70E150	Test Tube Holder Peg Type 18cm	each	5
55E346	Test Tube Holder PegTypeWood 26cm	each	5
55E538	Test Tube Rack 6 Holes for 16mmTubes	each	5
70E318	Test Tube Rack 6 Holes for 24mmTubes	each	20
70E107	Test Tube Rimmed 16mmx150mm	each	30
70E450	Test Tube Rimmed 24mmx150mm	each	2
70E346	Thermometer Spirit -10-110°C 30.5cm	each	2
70E393	Thermos Flask Inner 500ml	each	1
55E310	Tongs Crucible	each	1
55E474	Tripod Stand Round 21cm	each	1
70E1354	Tube Glass 6mm x 15cm	each	20
70E131	Turbidity Discs	each	10
70E070	Universal Indicator Colour Chart	each	20
50E027	Vial MB	each	5
70E501	Wash Bottle 250ml	each	1
55E313	Wire Gauze + Ceramic Centre 125x125mm	P300	1
70E111	Wooden Splinter (Toothpicks)		

45E1002	ELECTRICITY LEARNERS KIT	KIT	
Code	Description	Unit	Qty
70E535	Battery 1.5V Size R20PP	each	3
70E563	Battery Holder Large Single Cell	each	3
70E637	Bulb 3.8V (11x24mm)	each	10
70E400	Buzzer	each	1
55E244	Circuit Board Bulb Holder	each	6
55E246	Circuit Board Switch	each	4
60E863	Container Electricity	each	1
60E859	Lead+Croc Clips 10cm (Black)	each	7
60E860	Lead+Croc Clips 10cm (Red)	each	7
60E857	Lead+Croc Clips 15cm (Black)	each	2
60E858	Lead+Croc Clips 15cm (Red)	each	2
60E021	Lead+Croc Clips 30cm (Black)	each	1
60E022	Lead+Croc Clips 30cm (Red)	each	1
70E044	LED 5mm Red Round 2V	each	1
70E063	Multimeter (Digital) DCA 200uA - 10A	each	2
70E905	Nail 40mm	each	1
70E870	Resistor 10 Ohm 0.25W 5%	each	3
70E1379	Resistor 15 Ohm 0.25W 5%	each	3
70E085	Resistor 22 Ohm 0.25W 2%	each	3
55E973	Rheostat 3cmx6cm	each	2
70E092	Ruler 15cm	each	1
60E063	Steel Wool Roll	each	1

NATURAL SCIENCES : GRADE 8 & 9

CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
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45E988	ELECTRICITY TEACHER DEMONSTRATION KIT	KIT	
Code	Description	Unit	Qty
55E227	Worcester Circuit Board Kit + Accessories	each	1
60E816	Lead 1m+Croc Clip+Male Banana Plug Black	each	2
60E815	Lead 1m+Croc Clip+Male Banana Plug Red	each	2
70E056	Meter Ampere 500mA 50mA 5A DC	each	1
70E057	Meter Volt 3V, 15V, 300V DC	each	1

45E986	PREPARATION OF OXYGEN KIT (reaction of metals with oxygen)	KIT	
Code	Description	Unit	Qty
70E365	Beehive Stand 100mm	each	1
55E128	Cork Sheet 20cmx20cm	each	1
70E226	Deflagrating Spoon	each	2
55E544	Gas Cooker Top	each	1
55E531	Gas Cylinder 3kg	each	1
55E266	Gas Jar 50x200mm + Cover Slip 75mm	each	2
70E559	Retort Stand Boss Head Double	each	2
70E560	Retort Stand Clamp	each	2
70E1322	Retort Stand Upright & Base	each	2
70E344	Rubber Stopper Nr33 with 1 x 6mm hole	each	1
70E802	Rubber Tubing 6mm	metr	3
70E1062	Test Tube 38x200mm Rimmed	each	2
55E292	Trough Glass Pneumatic 300 x 125mm	each	1
70E744	Tube Glass 6mm x 10cm	each	2

45M980	CHEMICALS KIT : Grade 8 & 9	KIT	
Code	Description	Unit	Qty
70M939	Acetic Acid 0,1M 1L	each	1
70E159	Aluminium Foil 300mm x 5m	each	1
70M897	Bleach (Oxidising) 750ml	each	1
70M038	Bromothymol Blue 50ml	each	1
70M1181	Calcium Carbonate Powder 200g	each	1
70M1182	Calcium Hydroxide Powder 200g	each	1
70M1183	Carbon Powder 200 g	each	1
75E005	Cobalt Chloride Test Paper	V100	1
70M068	Cooking Oil 750ml	each	1
70M1062	Copper II Chloride 200g	each	1
70M1184	Copper Oxide 200g	each	1
70M385	Copper Sulphate 250g	each	1
70M1360	Copper Turnings 100g	each	1
70E902	Cotton Wool Roll 50g	each	1

NATURAL SCIENCES : GRADE 8 & 9

CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
70M912	Dishwashing Liquid 50ml	each	1
70M1185	Ethanol 100ml	each	1
70M097	Fehling's A 50ml	each	1
70M098	Fehling's B 50ml	each	1
70M1186	Fruit Juice 250ml	each	1
70M1589	Gelatine 500g	each	1
70M659	Glucose 100g	each	1
70M519	Hydrochloric Acid 0.1M 1L	each	1
70M303	Hydrochloric Acid Concentrated 500ml	each	1
70M272	Hydrogen Peroxide Concentrated 500ml	each	1
70M397	Iodine 0.1M 100ml	each	1
70M653	Iron Metal Filings 200g	each	1
70M1508	Iron Sulphate Solution 500ml	each	1
70M607	Iron Sulphide 200g	each	1
30E040	Litmus Paper Blue	V100	1
30E060	Litmus Paper Red	V100	1
70M501	Magnesium Oxide 500g	each	1
70M145	Magnesium Ribbon 2g	each	1
70M1509	Magnesium Sulphate 500ml	each	1
70M121	Manganese Dioxide 250g	each	1
70M152	Mercuric Oxide 20g	each	1
70M1071	Methylated Spirits 750ml	each	2
70M1354	Methylene Blue 100ml	each	1
70M320	Potassium Chlorate 500g	each	1
70M1510	Potassium Hydroxide 1M 500ml	each	1
70M608	Potassium Permanganate 250g	each	1
70E241(S500)	Seed Fenugreek 500g	each	1
70E298(S120)	Seed Sugar Beans 120g	each	1
70M1187	Shampoo 200ml	each	1
70M1188	Silver Nitrate 20g	each	1
70M1090	Sodium Chloride 250g	each	1
70M774	Sodium Hydroxide 0.1M 1L	each	1
70M231	Sodium Hydroxide Pearls 50g	each	1
70M391	Sodium Metal 50g	each	1
70M1052	Sodium Sulphite 100g	each	1
70M253	Starch 50g	each	1
70M1540	Sugar 500g	each	1
70M181	Sulphur Powder 200g	each	1
70M400	Sulphuric Acid 18M 500ml	each	1
70M674	Universal Indicator Solution 250ml	each	1
70M1541	Vaseline 250g	each	1
70M1189	Washing Powder 250g	each	1

NATURAL SCIENCES : GRADE 8 & 9

CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
70M1192	Washing Soda 125g	each	1
70E271	Yeast 10g	each	5
70M1193	Zinc Granules 200g	each	1

MODELS		Unit	Qty
Code	Description		
55E1441	Model : Torso (50cm with head & 9 parts)	each	1

MANUALS AND MOBILE STORAGE UNIT		Unit	Qty
Code	Description		
45P044	Learner & Teachers Manual	each	1
05P260	Chemical Safety Manual	each	1
70E1272	Mobile Storage Unit (metal 2 door lockable with castors)	each	1

SUMMARY KIT CONFIGURATION - NATURAL SCIENCES GRADE 8-9 CAPS		Unit	Qty
Code	Description		
20E088	Light Kit	each	1
45E1150	Resource Kit	each	1
45E1002	Electricity Learner's Kit	each	5
45E988	Electricity Teacher Demonstration Kit	each	1
45E986	Preparation of Oxygen Kit	each	1
45M980	Chemical Kit	each	1
55E1441	Model : Torso (50cm with head & 9 parts)	each	1
see above	Manuals	set	1
70E1272	Mobile Storage Unit (metal 2 door lockable with castors)	each	1

	<b>Genetics</b>		
45E989	Genetics Kit	each	1
45P032	Genetics Manual	each	1
45E1022	Life at Molecular, Cellular & Tissue Level - Inheritance Patterns - Three Types of Dominance	each	5
45P047	Manual : Life at Molecular, Cellular & Tissue Level - Inheritance Patterns - Three Types of Dominance	each	1
45E1006	Urinalysis Kit	each	1
45P033	Urinalysis Manual - Learners and Teachers	each	1
45E1021	Extraction of DNA Kit	each	1
45P045	Manual : Life at Molecular and Tissue level : DNA - The code of Life & DNA Extraction & Electron Micrographs	each	1
	<b>Microscopy</b>		
15E150	Microscope Kit complete - microscope, microscope slides, cover slips, dissecting set, chemicals for staining ....	each	1
55P002	Microscope - Learners Manual	each	1
55P003	Microscope - Teachers Manual	each	1
	<b>Models</b>		
55E098	Model : Heart	each	1
55E873	Model : Skeleton Small 50cm	each	1
55E1441	Human Torso 50cm (with head & 9 parts)	each	1
55E752	Laminated Sheets A4 with Images of Torso & Organs	pair	5
45P040	Human Torso - Workbook	each	1
45P041	Human Torso - Answer Booklet	each	1
	<b>Photomicrographs and Photographs</b>		
70P146	Laminations : Photomicrographs, X Rays & Photographs (set of 11 in colour back to back)	set	2
70P146M	Manual : Photomicrographs - Learner's Worksheets & Teacher's Guide	each	1
70P147	Laminations : Photomicrographs & Photographs (set of 12 in colour back to back)	set	2
70P147M	Manual : Photomicrographs - Learner's Worksheets & Teacher's Guide	each	1
70P151	Photomicrograph : Nucleus - Exercises and Suggested Answers	each	2
70P152	Photomicrograph : Skin- Exercises and Suggested Answers	each	2
	<b>Karyotypes</b>		
70P153	Karyotype : Down Syndrome - Exercises and Suggested Answers	each	2
70P154	Karyotype : Female - Exercises and Suggested Answers	each	2
70P155	Karyotype : Male - Exercises and Suggested Answers	each	2

PHYSICAL SCIENCES for Grade 10 - 12 CAPS  
CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
45E1203	EQUIPMENT KIT	Unit	Qty
55E998	AC/DC Motor Generator	each	1
70E906	Bar Magnet Alnico	each	1
20E063(1)	Boyle's Law Apparatus 250kPa	each	1
55E926	Brownlee Water Electrolysis Apparatus	each	10
70E090	Compass (small)	each	1
55E975	Conductometer	each	1
55E213	Diffraction Grating (100 lines/mm)	kit	1
55E509	Electric Motor Kit	kit	5
45E1002	Electricity Learner's Kits	each	1
55E498(1)	Electronic Balance 500g 0.01g with calibr. mass pce.	kit	1
70E1260	Force Board Kit	each	1
55E1027	g by Free Fall Apparatus	kit	3
10E200	Identifying Plastic Materials Kit	each	1
55E991	Inclined Plane & Friction Apparatus	kit	1
20E082	Light Kit	kit	1
55E1081	Material Kit Solids Mlnl	each	1
55E535	Measuring Tape 5m	kit	1
70E1361(3)	Mechanics Kit Standard + Ticker Timer accessories	kit	1
70E1361	Mechanics Photogates Kit	each	1
70E055	Metre rule	P50	1
70E061	Microscope Slides (set of 50)	kit	1
55E1059	Molecular Model Kit Senior	each	1
55E1084	Oersted's Apparatus	kit	2
10E180	Polyurethane Foam Kit	each	1
55E294	Power Supply 6V/12V AC/DC 2A	kit	1
20E081	Ripple Tank Kit	kit	5
10E210	Slimy Polymers Kit	each	1
70E449	Slinky	each	5
70E100	Stopwatch	set	5
55E122	Tuning Forks (set of 2 - 256mHz + 480mHz)	each	1
55E980	Vuvuzela	kit	1
25E035	Water Quality Testing Kit (Microlife)		

Code	Description	Unit	Qty
45E1253	GENERAL APPARATUS KIT	each	1
70E1360	Aspirator 10L + Tap	each	20
70X041	Bags Plastic 200x300mm	each	5
70E007	Beaker (Glass) 100ml	each	1
70E096	Beaker (Glass) 1L	each	20
70E008	Beaker (Glass) 250ml	each	2
70E009	Beaker (Glass) 500ml	each	5
70E230	Beaker (Glass) 50ml	each	5
70E249	Beaker (Plastic) 100ml	each	1
70E362	Beaker (Plastic) 1L	each	10
70E369	Beaker (Plastic) 250ml	each	2
70E349	Beaker (Plastic) 500ml	each	5
70E127	Beaker (Plastic) 50ml	each	5
55E343	Burette Clamp	each	5
55E221	Burette Glass + Pinch Cock + Jet 25ml	each	5
55E104	Burette Glass + Stopcock 25ml		

PHYSICAL SCIENCES for Grade 10 - 12 CAPS  
CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
		each	5
55E307	Burette Stand Porcelain base	each	5
70E1414	Burette Stand Upright	each	2
70E670	Burner Bunsen	each	5
55E543	Burner Spirit Glass 125ml	each	5
55E325	Clip Hoffman 20mm	each	5
55E326	Clip Mohr 50mm	each	2
55E228	Crucible Squat 25ml + Lid	each	1
55E1190	Electrode : Aluminium	each	1
55E1191	Electrode : Copper	each	1
55E1192	Electrode : Lead	each	1
55E1193	Electrode : Zinc	each	5
55E252	Evaporating Dish Porcelain 100ml	each	5
55E254	Evaporating Dish Porcelain 250ml	P100	1
70E106	Filter Paper 12.5cm	each	1
55E357	Flask Brush	each	10
55E257	Flask Conical Narrow Neck 250ml	each	1
55E256	Flask Distillation 250ml	each	5
55E123	Flask Flat Bottom Narrow Neck 250ml	each	5
55E160	Flask Round Bottom Narrow Neck 250ml	each	1
55E258	Flask Volumetric 250ml	each	1
55E262	Funnel Glass Separating 250ml	each	10
70E1092	Funnel Plastic 75mm clear	each	1
55E531(1)	Gas Cylinder 7kg	each	1
70E374	Gas Regulator swivel	each	3
70E744	Glass Tube 6mm x 10cm	each	3
70E665	Glass Tube 6mm x 20cm	each	3
70E854	Glass Tube 6mm x 20cm with Elbow	each	3
70E749	Glass Tube 6mm x 50cm	each	2
55E311	Glass U Tube 14mmx130mm	each	40
70E354	Gloves Disposable Medium	each	1
70E878	Hose Clamp	each	1
55E268	Hotplate	each	10
60E816	Leads : Croc clip - Banana plug Black 1M	each	10
60E815	Leads : Croc clip - Banana plug Red 1M	each	5
70E044	Led 5mm Red Round 2V	each	1
55E276	Liebig Condensor	each	1
70E242	Marker Pen Temporary Black Med	each	1
70E753	Masking Tape 25mm	each	5
55E279	Measuring Cylinder Glass 100ml	each	5
55E282	Measuring Cylinder Glass 250ml	each	10
55E158	Measuring Cylinder Plastic 10ml	each	2
70E054	Measuring Cylinder Plastic 250ml	each	1
55E132	Measuring Cylinder Plastic 500ml	100g	1
70E083	Prestik	each	100
60E031	Propettes Thin Stem Transfer 3ml	metr	1
70E785	PVC Tubing 6mm	each	5
55E297	Retort Ring Clamp 100mm x 140mm	each	5
70E559	Retort Stand Boss Head (Double)	each	5
70E560	Retort Stand Clamp	each	5
70E1322	Retort Stand Upright and Base		

PHYSICAL SCIENCES for Grade 10 - 12 CAPS  
CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
		each	5
70E414	Rod Glass 6mm x 30cm	100g	1
70E088	Rubber Bands Nr 10	100g	1
70E372	Rubber Bands Nr 32	each	2
70E799	Rubber Stopper Nr 15	each	2
70E797	Rubber Stopper Nr 15 + 1x6mm Hole	each	2
70E798	Rubber Stopper Nr 15 + 2x5mm Hole	each	2
70E794	Rubber Stopper Nr 21	each	2
70E795	Rubber Stopper Nr 21 + 1x6mm Hole	each	2
70E796	Rubber Stopper Nr 21 + 2x6mm Hole	each	5
70E791	Rubber Stopper Nr 29	each	5
70E792	Rubber Stopper Nr 29 + 1x6mm Hole	each	5
70E793	Rubber Stopper Nr 29 + 2x6mm Hole	each	5
70E343	Rubber Stopper Nr 33	each	5
70E344	Rubber Stopper Nr 33 + 1x6mm Hole	each	5
70E345	Rubber Stopper Nr 33 + 2x6mm Holes	metr	1
70E803	Rubber Tubing 10mm	metr	1
70E801	Rubber Tubing 5mm	metr	1
70E802	Rubber Tubing 6mm	metr	1
55E355	Rubber Tubing 8mm High Pressure	each	5
70E406	Safety Glasses	each	5
55E397	Spatula Metal Spoon End 15cm	roll	1
70E102	String 50g	each	5
70E514	Syringe 10ml	each	5
70E645	Syringe 20ml	each	5
70E706	Syringe 50ml	each	1
70E800	Tape Measure 3M	each	20
70E107	Test Tube 16mm x 150mm rimmed	each	20
70E450	Test Tube 24mm x 150mm rimmed	each	5
70E1062	Test Tube 38mm x 190mm rimmed	each	1
70E451	Test Tube Brush (Large)	each	5
70E150	Test Tube Holder Peg Type Wood 18cm	each	5
70E318	Test Tube Stand 6 Holes for 24mm Tubes	each	5
70E346	Thermometer Spirit -10 - 110° C 30.5cm	each	1
55E310	Tongs Crucible (Crooked)	each	5
55E474	Tripod Stand Round 21cm	each	1
55E292	Trough Glass Pneumatic 300mmx125mm	each	5
70E501	Wash Bottle 250ml	each	5
55E312	Watch Glass 10cm	each	1
55E751	Water Connecting Apparatus (for Liebig Cond)	each	1
70E121(5M)	Wire Copper Enamel Coated 5m	each	5
55E313	Wire Gauze + Ceramic Centre 125mm x125mm	each	1
70E1655	Wire Nichrome 36SWG 125g		

  

Code	Description	Unit	Qty
45M1003	CHEMICAL KIT	each	1
70M1436	Acetic Acid 0.1M 500ml	each	1
70M525	Acetone 500ml	each	1
70M729	Ammonium Chloride 200g	each	1
70M1437	Ammonium Hydroxide 6M 100ml	each	1
70M1554	Ammonium Nitrate 100g	each	1
70M1028	Barium Chloride 100g		

PHYSICAL SCIENCES for Grade 10 - 12 CAPS  
CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
		each	1
70M1438	Barium Nitrate 200g	each	1
70M1439	Barium Sulphate 100g	each	1
70M897	Bleach (Oxidising) 750ml	each	1
70M1535	Bromine Water 200ml	each	1
70M1536	Bromothymol Blue 200ml	each	1
70M1440	Butan-1-ol 200ml	box	1
70M1402	Cal-C Vita Tablets	each	1
70M735	Calcium Carbide 100g	each	1
70M1181	Calcium Carbonate Powder 200g	each	1
70M739	Calcium Chloride 250g	each	1
70M1182	Calcium Hydroxide 200g	each	1
70M061	Citric Acid 500g	each	1
70M131	Cobalt II Chloride 100g	each	1
70M068	Cooking Oil 750ml	each	1
70M1062	Copper II Chloride 200g	each	1
70M1184	Copper Oxide 200g	each	1
70M1555	Copper Powder 200g	each	1
70M805	Copper Sulphate 1M 250ml	each	1
70M1542	Copper Sulphate 200g	each	1
70M1360	Copper Turnings 100g	pkt	1
70E031	Cotton Wool Balls 100g	each	1
70M1556	Ethanol 200ml	each	1
70M589	Glycerine 500ml	each	1
70M1124	Hex-1-ene 150ml	each	1
70M1543	Hydrochloric Acid 0.1M 500ml	each	1
70M1544	Hydrochloric Acid 10M 500ml	each	1
70M1434	Hydrochloric Acid 5.5M 500ml	each	1
70M272	Hydrogen Peroxide Concentrated 500ml	each	1
70M822	Iodine 0.1M 250ml	each	1
70M1576	Iron III Chloride 2M 500ml	each	1
70M653	Iron Filings 200g	each	1
70M1558	Iron Powder 200g	each	1
70M1559	Iron Sulphide 200g	each	1
70M1560	Lead II Nitrate 200g	each	1
70M140	Lithium Metal 50g	each	1
30E040	Litmus Paper Blue	each	1
30E060	Litmus Paper Red	each	1
70M455	Magnesium Powder 100g	each	1
70M145	Magnesium Ribbon 2g	each	1
70M1561	Magnesium Sulphate 200g	each	1
70M1562	Manganese Dioxide 200g	each	1
70M1195	Methanol 200ml	each	1
70M1118	Methyl Orange 100ml	each	1
70M1071	Methylated Spirits 750ml	each	1
70M987	Nitric Acid 12M 500ml	each	1
70M1545	Nitric Acid 2M 500ml	each	1
70M1435	Oxalic Acid 0.1M 500ml	each	1
70M989	Oxalic Acid 200g	each	1
70M1445	Paint Black Etch Primer 100ml	each	1
70M1537	Pentanol 200ml	each	1

PHYSICAL SCIENCES for Grade 10 - 12 CAPS  
CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
		each	1
70M1119	Phenolphthalein indicator 100ml	each	1
70M1044	Potassium Bromide 100g	each	1
70M1096	Potassium Chlorate 250g	each	1
70M1566	Potassium Chloride 200g	each	1
70M1364	Potassium Iodide 100g	each	1
70M1046	Potassium Nitrate 200g	each	1
70M1567	Potassium Permanganate 200g	each	1
70M1568	Propan-1-ol 200ml	each	1
70M1538	Salicylic Acid 200g	each	1
70M209	Silver Nitrate 100g	each	1
70M1563	Sodium Bromide 100g	each	1
70M1026	Sodium Carbonate 100g	each	1
70M876	Sodium Chloride 200g	each	1
70M223	Sodium Hydrogen Carbonate 500g	each	1
70M616	Sodium Hydroxide 0.1M 500ml	each	1
70M1546	Sodium Hydroxide 0.5M 500ml	each	1
70M1569	Sodium Hydroxide 200g	each	1
70M1539	Sodium Iodide 200g	each	1
70M391	Sodium Metal 50g	each	1
70M1058	Sodium Sulphate 100g	each	1
70M1564	Sodium Sulphite 200g	each	1
70M1299	Sodium Thiosulphate 0.25M 500ml	each	1
70M1087	Sodium Thiosulphate 250g	each	1
70E356	Steel Wool Roll 25g	pkt	1
70M1540	Sugar 500g	each	1
70M1442	Sulphuric Acid 2M 500ml	each	1
70M1541	Vaseline 250g	each	1
70M1443	Vinegar Clear 750ml	each	1
70M1193	Zinc Granules 200g	each	1
70M1382	Zinc Powder 200g	each	1
70M806	Zinc Sulphate 1M 250ml	each	1
70M537	Zinc Sulphate 200g	each	1

Code	Resource Material for use of General Apparatus and Chemicals	Unit	Qty
05P260	Chemical Safety Manual	each	1
45P036	Practical Manual - Teacher's	each	1
45P037	Practical Manual - Learner's	each	1

SUMMARY KIT CONFIGURATION : PHYSICAL SCIENCES GRADE 10 - 12 CAPS			
Code		Unit	Qty
45E1203	Equipment	each	1
45E1253	General Apparatus	each	1
45M1003	Chemicals	set	1
see above	Resource Materials : Manuals	each	1
70E1272	Mobile Storage Unit (metal 2 door lockable with castors)	each	1

OPTIONAL EQUIPMENT			
Code	Description	Unit	Qty
70E056	Ammeter (triple scale)	each	1

PHYSICAL SCIENCES for Grade 10 - 12 CAPS  
CAPS COMPLIANT LAB EQUIPMENT SPECIFICATIONS : COMPREHENSIVE KIT

Code	Description	Unit	Qty
55E1059	Atomic Model Kit Senior	each	1
70E306	Bar Magnet Alnico	each	1
70E365	Beehive Stand 100 mm	each	1
55E926	Brownlee Water Electrolysis Apparatus	each	1
55E557(1)	Chart : Laboratory Techniques	each	1
55E194	Chart : Periodic Table large	each	1
55E557(2)	Chart : Safety in the Laboratory	P100	1
55E1183	Chromatography Paper Red		
	Data Loggers (a range of Neulog Logger Sensors is available upon request)		
	Distillation Kit : (comprising Liebig Condensor + Water Connector)		
55E276	Liebig Condensor	each	1
55E751	Water Connector (for Liebig Condensor)	each	1
55E1190	Electrode : Aluminium	each	1
55E1191	Electrode : Copper	each	1
55E1192	Electrode : Lead	each	1
55E1193	Electrode : Zinc	each	1
55E498	Electronic Balance 500g 0.1g with calibr. mass pce.	each	1
55E255	First Aid Kit	each	1
55E255 (1)	First Aid Kit Large (metal wall mounted unit)	each	1
70E1260	Force Board Kit	each	1
55E959	Function Generator	each	1
70E129	Galvanometer Centre Zero	each	1
55E266	Gas Jar 50x200mm + cover slip 75mm	each	1
55E510	Kinetic Theory Model	each	1
55E321	Laboratory Coat Large	each	5
60E816	Lead + Croc Clip + Banana Black 1m	each	5
60E815	Lead + Croc Clip + Banana Red 1m	each	5
	Linear Air Track System Complete:		
55E905	Linear Air Track	each	1
55E908	Air Blower 220V	each	1
70E1261	Photogates + Digital Timer	each	1
70E1371	Loudspeaker Mounted 100mm	each	1
70E052	Marbles (pkt of 10)	pkt	1
55E285	Microphone + lead + jack	each	1
55E008	Microscope Student Cadet + LED light source	each	1
55E981	Model Crystal Lattice	each	1
55E1185	Model of Atom	each	10
70E905	Nail 40mm	each	10
70E601	Nail 50mm	each	1
55E288	Oscilloscope Dual 50Mhz	each	1
55E294	Power Supply 2A 6V/12V AC/DC	each	1
55E995	Power Supply Regulated AC/DC 12V 2A	each	1
55E161	Rheostat 5A 10 Ohms	each	1
55E304	Solenoid 240 turnings	each	1
70E057	Voltmeter (triple scale)	each	1
55E227	Worcester Circuit Board Kit complete	each	1

45E989	Genetics Kit	each	1
45P032	Genetics Manual	each	1
45E1022	Life at Molecular, Cellular & Tissue Level - Inheritance Patterns - Three Types of Dominance	each	5
45P047	Manual : Life at Molecular, Cellular & Tissue Level - Inheritance Patterns - Three Types of Dominance	each	1
45E1006	Urinalysis Kit	each	1
45P033	Urinalysis Manual - Learners and Teachers	each	1
45E1021	Extraction of DNA Kit	each	1
45P045	Manual : Life at Molecular and Tissue level : DNA - The code of Life & DNA Extraction & Electron Micrographs	each	1
	<u>Microscopy</u>		
15E150	Microscope Kit complete - microscope, microscope slides, cover slips, dissecting set, chemicals for staining .....	each	1
55P002	Microscope - Learners Manual	each	1
55P003	Microscope - Teachers Manual	each	1
	<u>Models</u>		
55E098	Model : Heart	each	1
55E873	Model : Skeleton Small 50cm	each	1
55E1441	Human Torso 50cm (with head & 9 parts)	each	1
55E752	Laminated Sheets A4 with Images of Torso & Organs	pair	5
45P040	Human Torso - Workbook	each	1
45P041	Human Torso - Answer Booklet	each	1
	<u>Photomicrographs and Photographs</u>		
70P146	Laminations : Photomicrographs, X Rays & Photographs (set of 11 in colour back to back)	set	2
70P146M	Manual : Photomicrographs - Learner's Worksheets & Teacher's Guide	each	1
70P147	Laminations : Photomicrographs & Photographs (set of 12 in colour back to back)	set	2
70P147M	Manual : Photomicrographs - Learner's Worksheets & Teacher's Guide	each	1
70P151	Photomicrograph : Nucleus - Exercises and Suggested Answers	each	2
70P152	Photomicrograph : Skin- Exercises and Suggested Answers	each	2
	<u>Karyotypes</u>		
70P153	Karyotype : Down Syndrome - Exercises and Suggested Answers	each	2
70P154	Karyotype : Female - Exercises and Suggested Answers	each	2
70P155	Karyotype : Male - Exercises and Suggested Answers	each	2