



“Enhancing The Learning Experience”

6 Annette Crescent, Kingston 10, Jamaica, West Indies
 Tel: (876) 931-7451, (876) 755-0411 Fax: (876) 941-3593
 E-Mail: info@coldaxmartja.com Website: www.coldaxmartja.com

**CSEC PHYSICS RECOMMENDED MINIMUM EQUIPMENT AND MATERIAL LIST 25
 Students**

Quantity	Description
12	Metre Rule
12	Half Metre Rule
12	Callipers
12	Vernier Callipers
12	Micrometre Screw Gauge
5	Top Pan Balance
12	Spring Balance (0 — 2.5)N
1	Spring Balance (0 — 10)N
12	Stop Watch (Or Clock)
24	Retort Stand And Clamp/Boss Head
20	Pendulum Bob (Various Sizes And Different Mass)
5	Eureka/Overflow Can
12	Density Sets (Rectangular Or Cylindrical Masses Of Different Materials Having Similar Volumes)
12	Knife Edge (Switch)
12	Helical Spring Yielding 0.5N/Cm
12	Switches (3V Voltage Circuits)
12	Set Hook (Stirrup) + Set Of Slotted Masses (10 X 100g)
2	Acceleration Trolley
1	Electronic Timer
12	Single Pulley
12	Double Pulley
1	Manometer
1	12m Length Of Transparent PVC Tubing Diameter = 3cm
8	Sets Brass Masses (1 X 10g; 2 X 20g; 1 X 50g; 1 X 100g Etc.)
18	Thermometer: 10°C To 110°C
5	Clinical Thermometer (Celsius Red Alcohol Thermometers, -. -10 ⁰ C To 110 ⁰ C)
1	Thermocouple
1	Ball And Ring Demonstration Apparatus
1	Bimetallic Strip
20	Bunsen Burner
12	Tripod Stand And Wire Gauze
12	Beaker (100ml) Pyrex® Student-Grade Beakers



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Quantity	Description
12	Beaker (250ml) Pyrex® Student-Grade Beakers
12	Beaker (400ml) Pyrex® Student-Grade Beakers
12	100 ML Graduated Measuring Cylinder.
6	1 Metre Length Of Glass Tubing (Each 4mm Internal Diameter).
12	Glass Funnel
2	Set Thermal Conductivity Rods (Sets Rods Of Identical Dimensions And Different Metals)
1	Ripple Tank And Accessories
1	Slinky Spring
1	Bell Jar, Electric Bell And Vacuum Pump Apparatus.
12	Pin Board (Of Softwood Or Cardboard Or Polystyrene).
5	Ray Optics Kit
100	Optical Pins
12	Rectangular Glass Block
12	Right-Angled Triangular Glass Prism.
12	Equilateral Triangular Glass Prism.
1	Light Pipe
12	Converging Lens-Focal Length 10 Cm
12	Converging Lens-Focal Length 15 Cm
5	Diverging Lens - Any Focal Length.
12	Thin Plane Mirror (Each 5cm X 8cm)
12	Power Pack Or Accumulator Or Dry Cells In Holder Or With Soldered Leads
5	Reel-Varnished Or Insulated Copper Wire Swg 24.
12	Ammeter (0 - 1)A
12	Voltmeter (0 - 5)V
12	Digital Multi-Meter
30	Doz. Crocodile Clips
5	Small Screwdrivers
1	Pair Of Pliers Or Wire Cutter
12	3v Electric Lamp (Bulb)
12	3v Lamp Holder
1	Small D.C. Motor (As From Toy).
12	Variable Resistors, (Rheostat)



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Quantity	Description
2	Reel-Resistance Wire (Bare) Constantan (Swg 26)
2	Reel-Resistance Wire (Bare) Constantan (Swg 22).
12	Sets Assorted Standard Resistors.
24	Circuit Key Or Switch.
24	Diodes
0.5kg	Copper Sulphate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$)
1	Pair-Copper Electrodes (Thick Bare Copper Wire Suitable)
1	Card-Fuse Wire.
1	Set Of Aluminum And Lead Plates.
12	Set Logic Gates (Nand, And, Nor, Not, Or)