

The Global Uplift Project

Science Lab in a Box (SLaB)

Quotable Bill of Materials (QBM)

Bishop Maraka College

	Quantity	Item Description
Safety Equipment		Safety glasses
	2	Nitrile safety gloves
	2	Chemical safety aprons
		Eye wash bottles
		Fire blanket
		First aid kit
General Lab Equipment	15	Ring stand base with 70 cm vertical rod
		20 cm ring stand extension rods
		Ring stand clamp
		4" C clamp
	1	200 gram electronic balance +/- 0.01 g accuracy
		Bunsen Burner (liquid propane or natural gas)
		Propane tank 20 L
		Propane tank regulator
		Electric hot plate (alternative to Bunsen burners and gas)
		Rulers (30 cm)
		Protractors
		Scientific calculators
	20	Wooden meter stick (100 cm rule)
		5 meter measuring tape
	40	Alcohol thermometers (- 20 deg C to 120 deg C)
	30	Glass stir rods
		25 ml Borosilicate beaker
		100 ml Borosilicate beaker
	30	250 ml Borosilicate beaker
		600 ml Borosilicate beaker
	1000 ml Borosilicate beaker	
	125 ml Borosilicate Erlenmeyer flask	
50	250 ml Borosilicate Erlenmeyer flask	
	10 ml Borosilicate Graduated cylinder	
	25 ml Borosilicate Graduated cylinder	
50	100 ml Borosilicate Graduated cylinder	
	250 ml Borosilicate Graduated cylinder	

- 70 mm Polyethylene Utility Funnel
- 108 mm Polyethylene Utility Funnel
- 2 20 ml, 16 mm x 150 mm Borosilicate test tube
- 2 55 ml, 25 mm x 150 mm Borosilicate test tube
- 10 Evaporating dish
- Wash Bottle
- 25 Pipettes
- Serological pipettes filler
- 50 Droppers
- 50 Spatula
- pH test strips 1-14 5 meter roll
- Mortar and Pestle
- Chromatography paper

Biology

- 1 Compound light microscope 400x
- 1 Microscope glass slides (1 pkg = 72 slides)
- 1 Microscope slide glass cover slips (1 pkg = 200 slips)
- Prepared Onion root tip - cell cycle microscope slides
- Bromthymol blue stain 500 ml
- 1 Iodine stain
- Isopropyl Alcohol 99% 4 L
- NaCl 500g
- 10 pins, 12 scalpels, 12 fine point forceps, 12 probe and
- Owl pellets
- 50 50 mm x 15 mm Petri dish (1 pkg = 20 dishes)
- 90 mm x 15 mm Petri dish (1 pkg = 20 dishes)
- Inoculating loop
- Filter cloth (1 pkg = 4 sq yds)
- Plankton net
- Modeling clay
- [Wall Chart - Digestive system \(i.e., Anatomical Poster Set\)](#)
- Wall Chart - Ear & Eye
- Wall Chart - Bones
- Wall Chart - Brains
- Wall Chart - Heart
- Wall Chart - Circulatory system
- Wall Chart - Reproductive system
- 1 Wall Chart - Periodic table

Chemistry

- 2 Copper density rods
- 2 Aluminum density rods
- 2 Zinc density rods
- 1 Sodium Carbonate 500g

- 1 Calcium Chloride 500 g
- 2 Filter Paper 12.5 cm
- 1 HCl solution Alitre
- NaOH solution 3M, 500 ml
- 1 Phenolphthalein indicator 25g
- 1 Magnesium Ribbon 25 g
- 1 Ammonium Chloride 500g
- Water quality testing kit
- Metal Crucibles
- Propane torch
- Propane tanks
- conductivity meter
- Ammonium Chloride
- 1 Methanol 95%
- 4 Ethanol 95%
- 1 Barium nitrate
- Barium chloride
- Bromine water
- 1 Sulfuric acid 2.5 litres
- 1 Nitric acid a 2.5 litres
- 1 Hydrochloric acid 2.5 litres
- 1 Ethanoic acid 2.5 litres
- Maleic acid 500ml
- 30 Rubber stoppers for test tubes
- Calorimeter
- Molecular model kit
- 1 Iron filings

Physics

- AC DC 0-24V Power Supply
- Multimeters
- Circuit breadboards
- 1 Ohm resistors
- 20 2 Ohm resistors
- 30 3 Ohm resistors
- 20 5 Ohm resistors
- 50 10 Ohm resistors
- 20 ammeters
- 750 microfarrad capacitors (1 pkg = 15 capacitors)
- 50 Plane mirrors
- 20 concave mirrors f.10 CM
- 20 Convex / concave mirrors f. 10cm
- 100 lines/mm diffraction grating
- 300 lines/mm diffraction grating

600 lines/mm diffraction grating
1000 lines/mm diffraction grating
Diode laser - red, 5mWatts
Diode laser - blue, 5mWatts
Diode laser - green, 5mWatts
neodimium magnets (cylindrical 2cm diameter, 2cm heigh
50 Stop watch
Nylon string 100 meters
40 Ideal spring sets (spring constants 2.5N
20 Mass set 100g
Mass set 10g
Projectile launcher, spring loaded with protractor
Force table
Pulley with clamp
Digital force sensor
Digital motion sensor
Dynamics carts
Electroscope