

# The Global Uplift Project

## Science Lab in a Box (SLaB)

### Quotable Bill of Materials (QBM)

#### St. Edwards College

	Quantity	Item Description
<b>Safety Equipment</b>		Safety glasses
	2	Nitrile safety gloves
	1	laboratory coats
		Eye wash bottles
		Fire blanket
		First aid kit
<b>General Lab Equipment</b>	10	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)
		Glass stir rods
		25 ml Borosilicate beaker
	100 ml Borosilicate beaker	
36	250 ml plastic beaker	
	600 ml Borosilicate beaker	
	1000 ml Borosilicate beaker	
	125 ml Borosilicate Erlenmeyer flask	
30	250 ml Borosilicate Erlenmeyer flask	
	10 ml Borosilicate Graduated cylinder	
	25 ml Borosilicate Graduated cylinder	
30	50 ml plastic cylinder	

20 burette with clip  
 250 ml Borosilicate Graduated cylinder  
 30 70 mm Polyethylene Utility Funnel  
 108 mm Polyethylene Utility Funnel  
 1 20 ml, 16 mm x 150 mm Borosilicate test tube  
 1 55 ml, 25 mm x 150 mm Borosilicate test tube  
 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 Student microscope  
 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  
 20 soft boards  
  
 Owl pellets  
 40 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

Copper density rods  
 Aluminum density rods

	Zinc density rods
1	Sodium Carbonate 500g
	Calcium Chloride 500 g
1	sodium thio sulphate penta
2	Filter Paper 12.5 cm
	HCl solution Alitre
4	Sodium hydroxide
1	Phenolphthalein indicator 25g
1	Magnesium Ribbon 25 g
	Ammonium Chloride 500g
	Water quality testing kit
	Metal Crucibles
	Propane torch
	Propane tanks
	conductivity meter
1	Ammonium Carbonate 500g
	Methanol 95%
1	Ethanol 95%
1	Barium carbonate
	Bromine water
1	Sulfuric acid 2.5 litres
1	Nitric acid a 2.5 litres
1	Hydrochloric acid 2.5 litres
	Ethanoic acid 2.5 litres
	Maleic acid 500ml
	Rubber stoppers for test tubes
	Calorimeter
	Molecular model kit
1	potassium permangate 500g
	AC DC 0-24V Power Supply
	Multimeters
	Single cell holders
	Circuit breadboards
	1 Ohm resistors
	Rheostats 20 ohm
10	Rheostats 50 Ohm
	3 Ohm resistors
	5 Ohm resistors
	10 Ohm resistors
20	Ammeters
	750 microfarrad capacitors (1 pkg = 15 capacitors)
30	Plane mirrors

## Physics

- 30 convex lenses f.10 CM
- concave lense f. 10cm
- 100 lines/mm diffraction grating
- measuring cylinder 10ml
- 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 height)
- 50 Stop watch
- Nylon string 100 meters
- Ideal spring sets (spring constants 2.5N
- 10 Mass set 100g
- 20 Mass set 50g
- Projectile launcher, spring loaded with protractor
- Force table
- Pulley with clamp
- Digital force sensor
- Digital motion sensor
- Dynamics carts
- Electroscope