

The Global Uplift Project

Science Lab in a Box (SLaB)

Kakoola School

	Quantity	Item Description
Safety Equipment	2	Fire blanket
	1	First aid kit
	1	Nitrile safety gloves
	3	Safety glasses
General Lab Equipment	1	1000ml Borosilicate beaker
	5	100ml Borosilicate beaker
	5	100ml Borosilicate Graduated cylinder
	5	108mm Polyethylene Utility Funnel
	5	10ml Borosilicate Graduated cylinder
	5	125ml Borosilicate Erlenmeyer flask
	6	200 gram electronic balance +/- 0.01 g accuracy
	5	20cm ring stand extension rods
	5	20ml, 16 mm x 150 mm Borosilicate test tube
	25	250ml Borosilicate beaker
	5	250ml Borosilicate Erlenmeyer flask
	5	250ml Borosilicate Graduated cylinder
	5	25ml Borosilicate beaker
	5	25ml Borosilicate Graduated cylinder
	5	4" C clamp
	3	5 meter measuring tape
	10	55ml, 25 mm x 150 mm Borosilicate test tube
	10	600ml Borosilicate beaker
	5	70mm Polyethylene Utility Funnel
	4	Alcohol thermometers (- 20 deg C to 120 deg C)
	5	Bunsen Burner (liquid propane or natural gas)
	3	Chromatography paper
	5	Evaporating dish
	50	Glass stir rods
	50	Micro spatula
	3	Mortar and Pestle
	2	pH test strips 1-14 5 meter roll
	5	Protractors
	5	Rulers (30 cm)
	25	Serological pipettes
	5	Serological pipettes filler
2	Transfer Pipettes (box of plastic ones)	
5	Wash Bottle	

Biology

- 1 Wooden meter stick (100 cm rule)
- 2 50mm x 15 mm Petri dish (1 pkg = 20 dishes)
- 3 90mm x 15 mm Petri dish (1 pkg = 20 dishes)
- 1 Bromthymol blue stain 500 ml
- 2 pins, 12 scalpels, 12 fine point forceps, 12 probe and
- 1 Compound light microscope 400x
- 1 Dissection pans
- 2 Filter cloth (1 pkg = 4 sq yrds)
- 2 Iodine stain 500 ml
- 1 Isopropyl Alcohol 99% 4 L
- 2 Microscope glass slides (1 pkg = 72 slides)
- 2 Microscope slide glass cover slips (1 pkg = 200 slips)
- 4 Modeling clay
- 2 NaCl salt - 250 g
- 5 Owl pellets
- 1 Plankton net
- 3 Prepared Onion root tip - cell cycle microscope slides
- 1 Wall Chart - Bones
- 1 Wall Chart - Brains
- 1 Wall Chart - Circulatory system
- 1 [Wall Chart - Digestive system \(i.e., Anatomical Poster Set\)](#)
- 1 Wall Chart - Ear & Eye
- 1 Wall Chart - Heart
- 1 Wall Chart - Periodic table
- 1 Wall Chart - Reproductive system

Chemistry

- 2 Aluminum density rods
- 2 Ammonium Chloride 1M 500 ml
- 2 Ammonium Chloride 1M 500 ml
- 2 Barium chloride 500ml
- 2 Barium nitrate
- 1 Bromine water
- 2 Calcium Chloride 500 g
- 5 Calorimeter
- 1 conductivity meter
- 5 Copper density rods
- 2 Ethanoic acid 500ml
- 1 Ethanol 95% 4L
- 15 Filter Paper 12.5 cm
- 5 HCl solution 3M, 500ml
- 2 Hydrochloric acid 500ml
- 1 Iron filings
- 2 Magnesium Ribbon 25 g
- 2 Maleic acid 500ml
- 5 Metal Crucibles
- 1 Methanol 95% 4L
- 2 Molecular model kit
- 2 NaOH solution 3M, 500 ml

- 2 Nitric acid 500ml
- 2 Phenolphthalein indicator solution
- 2 Propane tanks
- 2 Propane torch
- 3 Rubber stoppers for test tubes & flasks
- 2 Sodium Carbonate 500 g
- 2 Sulfuric acid 500ml
- 1 Water quality testing kit
- 5 Zinc density rods

Physics

- 1 100 lines/mm diffraction grating
- 1 100 Ohm resistors (1 pkg = 50 resistors)
- 1 1000 lines/mm diffraction grating
- 1 10k Ohm resistors (1 pkg = 50 resistors)
- 1 1k Ohm resistors (1 pkg = 50 resistors)
- 1 2.5k Ohm resistors (1 pkg = 50 resistors)
- 1 300 lines/mm diffraction grating
- 1 300 microfarrad capacitors (1 pkg = 15 capacitors)
- 1 50 Ohm resistors (1 pkg = 50 resistors)
- 1 500 Ohm resistors (1 pkg = 50 resistors)
- 1 600 lines/mm diffraction grating
- 1 750 microfarrad capacitors (1 pkg = 15 capacitors)
- 1 AC DC 0-24V Power Supply
- 1 Circuit breadboards
- 5 Convex / concave mirrors (75mm diameter, 200mm focal
- 2 Digital force sensor
- 10 Diode laser - blue, 5mWatts
- 10 Diode laser - green, 5mWatts
- 10 Diode laser - red, 5mWatts
- 3 Dynamics carts
- 1 Electroscope
- 1 Force table
- 5 Ideal spring sets (spring constants 2.5, 5, 10, 15, and 25 N
- 15 Mass set (10g, 4x 20g, 2x 50g, 4x 100g, 200g, 500g, 1kg)
- 2 Multimeters
- 20 neodimium magnets (cylindrical 2cm diameter, 2cm heigh
- 10 Nylon string 100 meters
- 5 Plane mirrors (10 cm x 10 cm)
- 1 Projectile launcher, spring loaded with protractor
- 1 Pulley with clamp
- 2 Stop watch