The Global Uplift Project

Science Lab in a Box (SLaB)

Quotable Bill of Materials (QBM)

Nyakisa Secondary School

	Quantity	Item Description
Safety Equipment	2	Safety glasses
		Nitrile safety gloves
	2	laboratory coats
		Eye wash bottles
		Fire blanket
		First aid kit
General Lab Equipment	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
	10	Bunsen Burner
		Propane tank 20 L
		Propane tank regulator
		Electric hot plate (alternative to Bunsen burners and gas)
		Rulers (30 cm)
		Protractors
		Scientific calculators
		Wooden meter stick (100 cm rule)
		5 meter measuing tape
	50	Alcohol thermometers (- 20 deg C to 120 deg C)
	50	Glass stir rods
		25 ml Borosilicate beaker
		100 ml Borosilicate beaker
		250 ml glass beaker
		250 ml plastic beaker
		1000 ml Borosilicate beaker
		125 ml Borosilicate Erlenmeyer flask
	48	250 ml Borosilicate Erlenmeyer flask
		10 ml Borosilicate Graduated cylinder
		25 ml Borosilicate Graduated cylinder
		50 ml plastic cylinder

	24	burette with clip
		250 ml Borosilicate Graduated cylinder
	50	70 mm Polyethylene Utility Funnel
		108 mm Polyethylene Utility Funnel
	4	20 ml, 16 mm x 150 mm Borosilicate test tube
	4	55 ml, 25 mm x 150 mm Borosilicate test tube
		Evaporating dish
	20	Wash Bottle
	25	Pipettes
		Serological pipettes filler
	50	Droppers
	50	Spatula
	2	Litmus paper red and blue (pack of 10 for each)
	2	Mortar and Pestle
		Chromatography paper
Biology	1	Student microscope
	2	Microscope glass slides (1 pkg = 72 slides)
	2	Microscope slide glass cover slips (1 pkg = 200 slips)
	10	Prepared Onion root tip - cell cycle microscope slides
		Bromthymol blue stain 500 ml
	2	Iodine solution
		Isopropyl Alcohol 99% 4 L
		NaCl 500g
	38	soft boards
		Owl pellets
		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 yrds)
		Plankton net
	3	Modeling clay
		Wall Chart - Digestive system
		Wall Chart - Eye
		Wall Chart - Brains
		Wall Chart - Circulatory system
		Wall Chart - Reproductive system
	1	Wall Chart - Periodic table
Chemistry		Copper density rods
		Aluminum density rods
		Zinc density rods

	2	Sodium Carbonate 500g
		Calcium Chloride 500 g
	5	sodium thio sulphate penta
	5	Filter Paper whatman
		HCl solution Alitre
	5	Sodium hydroxide
		Phenolphthalein indicator 25g
	5	Magnesium Ribbon 25 g
		Ammonium Chloride 500g
		Water quality testing kit
		Metal Crucibles
		Propane torch
		Propane tanks
		conductivity meter
		Ammonium Carbonate 500g
		Methanol 95%
	4	Ethanol 95%
	1	Barium nitrate 500g
		Bromine water
	2	Sulfuric acid 2.5 litres
	2	Nitric acid a 2.5 litres
	2	Hydrochloric acid 2.5 litres
		Ethanoic acid 2.5 litres
		Maleic acid 500g
		Rubber stoppers for test tubes
		Calorimeter
		Molecular model kit
	1	potassium permangate 500g
Physics	20	Ammeter
		Multimeters
	50	Single cell holders
	20	Galvanometers
		Circuit breadboards
	20	1 Ohm resistors
		3 Ohm resistors
	20	5 Ohm resistors
		10 Ohm resistors
	10	Voltmeter
		750 microfarrad capacitors (1 pkg = 15 capacitors)
		Plane mirrors
	50	convex lenses f.10 CM

50	concave lense f. 10cm
	100 lines/mm diffraction grating
100	measuring cylinder plastic 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 heigh
50	Stop watch
	Nylon string 100 meters
	Ideal spring sets (spring constants 2.5N
	Mass set 100g
16	Mass set 50g
	Projectile launcher, spring loaded with protractor
	Force table
	Pulley with clamp
	Digital force sensor
	Digital motion sensor
	Dynamics carts
	Electroscope