

The Global Uplift Project

Science Lab in a Box (SLaB)

Quotable Bill of Materials (QBM)

		MERIDIAN TECH SYSTE	CHEMIQUIP LIMITED		
Quantity	Item Description	Quoted price (UG shs)	Quoted price (UG shs)	Lowest price (UG shs)	Total (UG shs)
	Chemical safety aprons	30,000	30,000	30,000	
	Eye wash bottles	15,000	10,000	10,000	-
2	Fire blanket	45,000	42,000	42,000	
1	First aid kit	150,000	65,000	65,000	65,000
1	Nitrile safety gloves	25,000	30,000	25,000	25,000
3	Safety glasses	25,000	10,000	10,000	30,000
					-
1	1000ml Borosilicate beaker	70,000	20,000	20,000	20,000
5	100ml Borosilicate beaker	19,000	4,000	4,000	20,000
5	100ml Borosilicate Graduated cylinder	15,000	10,000	10,000	50,000
5	108mm Polyethylene Utility Funnel	9,000	10,000	9,000	45,000
5	10ml Borosilicate Graduated cylinder	5,000	3,000	3,000	15,000
5	125ml Borosilicate Erlenmeyer flask	10,000	12,000	10,000	50,000
6	200 gram electronic balance +/- 0.01 g accuracy	100,000	150,000	100,000	600,000
5	20cm ring stand extension rods	10,000	12,000	10,000	50,000
5	20ml, 16 mm x 150 mm Borosilicate test tube	75,000	65,000	65,000	325,000
25	250ml Borosilicate beaker	12,000	6,000	6,000	150,000
5	250ml Borosilicate Erlenmeyer flask	8,500	7,000	7,000	35,000
5	250ml Borosilicate Graduated cylinder	17,000	15,000	15,000	75,000
5	25ml Borosilicate beaker	4,500	5,000	4,500	22,500
5	25ml Borosilicate Graduated cylinder	9,500	4,000	4,000	20,000
5	4" C clamp	40,000	30,000	30,000	150,000
3	5 meter measuring tape	10,000	10,000	10,000	30,000
10	55ml, 25 mm x 150 mm Borosilicate test tube	60,000	65,000	60,000	600,000
10	600ml Borosilicate beaker	25,000	15,000	15,000	150,000
5	70mm Polyethylene Utility Funnel	4,500	5,000	4,500	22,500
4	Alcohol thermometers (- 20 deg C to 120 deg C)	75,000	50,000	50,000	200,000
5	Bunsen Burner (liquid propane or natural gas)	20,000	15,000	15,000	75,000
3	Chromatography paper	35,000	15,000	15,000	45,000
	Electric hot plate (alternative to Bunsen burners and gas)	400,000	200,000	200,000	
5	Evaporating dish	12,000	5,000	5,000	25,000
50	Glass stir rods	3,000	3,000	3,000	150,000
50	Micro spatula	3,000	2,000	2,000	100,000
3	Mortar and Pestle	35,000	10,000	10,000	30,000
2	pH test strips 1-14 5 meter roll	270,000	10,000	10,000	20,000

	Propane tank 20 L	400,000	300,000	300,000	-
	Propane tank regulator	10,000	12,000	10,000	-
5	Protractors	30,000	20,000	20,000	100,000
	Ring stand base with 70 cm vertical rod	50,000	37,000	37,000	-
	Ring stand clamp	40,000	15,000	15,000	-
5	Rulers (30 cm)	10,000	3,000	3,000	15,000
	Scientific calculators	45,000	65,000	45,000	-
25	Serological pipettes	8,000	4,000	4,000	100,000
5	Serological pipettes filler	3,000	3,000	3,000	15,000
2	Transfer Pipettes (box of plastic ones)	20,000	25,000	20,000	40,000
5	Wash Bottle	12,000	4,000	4,000	20,000
1	Wooden meter stick (100 cm rule)	8,000	10,000	8,000	8,000
				-	
2	50mm x 15 mm Petri dish (1 pkg = 20 dishes)	3,000	3,000	3,000	6,000
3	90mm x 15 mm Petri dish (1 pkg = 20 dishes)	22,000	5,000	5,000	15,000
1	Bromthymol blue stain 500 ml	17,000	20,000	17,000	17,000
2	pins, 12 scalpels, 12 fine point forceps, 12 probe and	15,000	15,000	15,000	30,000
1	Compound light microscope 400x	1,000,000	300,000	300,000	300,000
1	Dissection pans	35,000	35,000	35,000	35,000
2	Filter cloth (1 pkg = 4 sq yrds)	20,000	20,000	20,000	40,000
	Inoculating loop	-	10,000	-	-
2	Iodine stain 500 ml	20,000	30,000	20,000	40,000
1	Isopropyl Alcohol 99% 4 L	110,000	40,000	40,000	40,000
2	Microscope glass slides (1 pkg = 72 slides)	10,000	7,000	7,000	14,000
2	Microscope slide glass cover slips (1 pkg = 200 slips)	5,000	3,500	3,500	7,000
4	Modeling clay	15,000	10,000	10,000	40,000
2	NaCl salt - 250 g	20,000	25,000	20,000	40,000
5	Owl pellets			-	-
1	Plankton net			-	-
3	Prepared Onion root tip - cell cycle microscope slides			-	-
1	Wall Chart - Bones	10,000	30,000	10,000	10,000
1	Wall Chart - Brains	10,000	30,000	10,000	10,000
1	Wall Chart - Circulatory system	25,000	30,000	25,000	25,000
1	Wall Chart - Digestive system (i.e., Anatomical Poster Set)	-	30,000	-	-
1	Wall Chart - Ear & Eye	10,000	30,000	10,000	10,000
1	Wall Chart - Heart	10,000	30,000	10,000	10,000
1	Wall Chart - Periodic table	45,000	30,000	30,000	30,000
1	Wall Chart - Reproductive system	25,000	30,000	25,000	25,000
				-	-
2	Aluminum density rods	25,000	10,000	10,000	20,000
2	Ammonium Chloride 1M 500 ml	35,000	35,000	35,000	70,000
2	Ammonium Chloride 1M 500 ml	25,000	35,000	25,000	50,000
2	Barium chloride 500ml	50,000	35,000	35,000	70,000
2	Barium nitrate	50,000	35,000	35,000	70,000
1	Bromine water	65,000	60,000	60,000	60,000

2	Calcium Chloride 500 g	50,000	30,000	30,000	60,000
5	Calorimeter	50,000	20,000	20,000	100,000
1	conductivity meter	250,000	30,000	30,000	30,000
5	Copper density rods	25,000	12,000	12,000	60,000
2	Ethanoic acid 500ml	25,000	20,000	20,000	40,000
1	Ethanol 95% 4L	140,000	20,000	20,000	20,000
15	Filter Paper 12.5 cm	30,000	12,000	12,000	180,000
5	HCl solution 3M, 500ml	20,000	20,000	20,000	100,000
2	Hydrochloric acid 500ml	25,000	20,000	20,000	40,000
1	Iron filings	45,000	35,000	35,000	35,000
2	Magnesium Ribbon 25 g	20,000	20,000	20,000	40,000
2	Maleic acid 500ml	55,000	25,000	25,000	50,000
5	Metal Crucibles	55,000	12,000	12,000	60,000
1	Methanol 95% 4L	140,000	40,000	40,000	40,000
2	Molecular model kit	20,000	20,000	20,000	40,000
2	NaOH solution 3M, 500 ml	25,000	25,000	25,000	50,000
2	Nitric acid 500ml	25,000	20,000	20,000	40,000
2	Phenolphthalein indicator solution	25,000	20,000	20,000	40,000
2	Propane tanks			-	-
2	Propane torch			-	-
3	Rubber stoppers for test tubes & flasks	28,000	1,500	1,500	4,500
2	Sodium Carbonate 500 g	25,000	25,000	25,000	50,000
2	Sulfuric acid 500ml	25,000	20,000	20,000	40,000
1	Water quality testing kit	55,000	50,000	50,000	50,000
5	Zinc density rods	25,000	9,000	9,000	45,000
				-	
1	100 lines/mm diffraction grating	10,000	10,000	10,000	10,000
1	100 Ohm resistors (1 pkg = 50 resistors)	12,000	2,000	2,000	2,000
1	1000 lines/mm diffraction grating	40,000	40,000	40,000	40,000
1	10k Ohm resistors (1 pkg = 50 resistors)	5,000	2,000	2,000	2,000
1	1k Ohm resistors (1 pkg = 50 resistors)	5,000	2,000	2,000	2,000
1	2.5k Ohm resistors (1 pkg = 50 resistors)	5,000	2,000	2,000	2,000
1	300 lines/mm diffraction grating	14,000	14,000	14,000	14,000
1	300 microfarrad capacitors (1 pkg = 15 capacitors)	25,000	2,000	2,000	2,000
1	50 Ohm resistors (1 pkg = 50 resistors)	12,000	2,000	2,000	2,000
1	500 Ohm resistors (1 pkg = 50 resistors)	22,000	2,000	2,000	2,000
1	600 lines/mm diffraction grating	30,000	30,000	30,000	30,000
1	750 microfarrad capacitors (1 pkg = 15 capacitors)	25,000	2,000	2,000	2,000
1	AC DC 0-24V Power Supply	-	-	-	-
1	Circuit breadboards	25,000	25,000	25,000	25,000
5	Convex / concave mirrors (75mm diameter, 200mm focal	4,000	3,500	3,500	17,500
2	Digital force sensor	50,000	50,000	50,000	100,000
	Digital motion sensor	40,000	40,000	40,000	-
10	Diode laser - blue, 5mWatts	20,000	5,000	5,000	50,000
10	Diode laser - green, 5mWatts	20,000	5,000	5,000	50,000

10	Diode laser - red, 5mWatts	20,000	5,000	5,000	50,000
3	Dynamics carts	35,000	35,000	35,000	105,000
1	Electroscope	196,000	250,000	196,000	196,000
1	Force table	385,000	400,000	385,000	385,000
5	Ideal spring sets (spring constants 2.5, 5, 10, 15, and 25 l	30,000	25,000	25,000	125,000
15	Mass set (10g, 4x 20g, 2x 50g, 4x 100g, 200g, 500g, 1kg)	9,000	35,000	9,000	135,000
2	Multimeters	55,000	40,000	40,000	80,000
20	neodimium magnets (cylindrical 2cm diameter, 2cm heigh	7,000	15,000	7,000	140,000
10	Nylon string 100 meters	2,000	4,000	2,000	20,000
5	Plane mirrors (10 cm x 10 cm)	5,000	3,000	3,000	15,000
1	Projectile launcher, spring loaded with protractor	200,000	250,000	200,000	200,000
1	Pulley with clamp	12,000	45,000	12,000	12,000
2	Stop watch	14,000	8,000	8,000	16,000
		6,477,000	4,276,500	3,835,500	7,623,000

Description	Total (UG shs)	Total (USD)
Safety Equipment	120,000	\$ 31.58
General Lab Equipment	3,373,000	\$ 887.63
Biology	744,000	\$ 195.79
Chemistry	1,554,500	\$ 409.08
Physics	1,831,500	\$ 481.97
Total	7,623,000	\$ 2,006.05
Project management	1,524,600	\$ 401.21
Final Total with Tax	9,147,600	\$ 2,407.26

100 ohm resistors (1pkg= 50 resistors)	12,000	2,000	FALSE
			FALSE
10k omh resistors (1pkg =50 resistors)	-	2,000	FALSE
1k ohm resistors (1pkg=50 resistors)	-	2,000	FALSE
2.5k ohm resistors (1pkg= 50 resistors)	-	2,000	FALSE
			FALSE
300 microfarrad capacitors (1 pkg = 15 capacitors	-	2,000	TRUE
50 ohm resistors (1pkg=50 resistors)	12,000	2,000	FALSE
500 omh resistors (1pkg =50 resistors)	22,000	2,000	FALSE
			FALSE
750 microfarrad capacitors (1 pkg = 15 capacitors	-	2,000	TRUE
			FALSE
			FALSE
Convex/ Concave mirrors (75mm diameter, 200m	4,000	3,500	FALSE
			FALSE
			FALSE
Diode laser - blue, 5mWatts		5,000	FALSE
Diode laser - green, 5mWatts		5,000	FALSE
Diode laser - red, 5mWatts		5,000	FALSE
			FALSE
			FALSE
			FALSE
			FALSE
Mass set (10g, 4x 20g, 2x 50g, 4x 100g, 200g, 500g)	-	35,000	TRUE
Multimeters	55,000		FALSE
neodimium magnets (cylindrical 2cm diameter, 2cm heigh		15,000	FALSE
			FALSE
Plane mirrors (10 cm x 10cm)	5,000	3,000	FALSE
			FALSE
pulley with clamp	12,000		TRUE
Stop watch	14,000	8,000	TRUE

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

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