



a WOW Lab

**BLUEPRINT**

Quanta of Colour

## Shopping List

The list is divided up into consumable and reusable items. Quantities listed assume a class size of 30 students split into seven groups. The listed initial cost assumes that the activity has never been performed before and that all of the materials must be purchased. The legend below provides details of where the materials can be found:

A = Arts and Crafts Store  
D = Dollar Store  
E = Educational Supplier

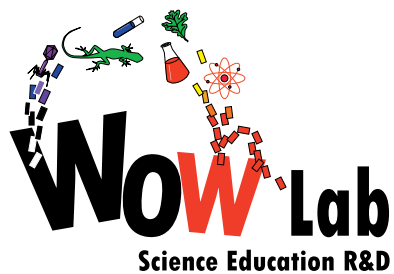
G = Grocery Store  
H = Hardware Store  
O = Online

P = Pharmacy  
S = Specialty Store  
U = University

<b>CONSUMABLE ITEMS</b>			
<b>Item</b>	<b>Amount Required</b>	<b>Purchase Code</b>	<b>Total Cost</b>
anhydrous isopropanol	350 mL	E	\$67.00 (for 1 L)
zinc acetate dihydrate	350 mg	E	\$25.00 (for 500 g)
sodium hydroxide pellets (reagent grade)	350 mg	E	\$10.00 for (100 g)
sulfuric acid (0.5 M)	150 mL	E	\$15.00 (for 1 L)
water	1.5 L	—	free
crushed ice	~750 mL	—	free
<b>COST OF CONSUMABLE ITEMS:</b>			<b>\$117.00</b>

<b>REUSABLE ITEMS</b>			
<b>Item</b>	<b>Amount Required</b>	<b>Purchase Code</b>	<b>Total Cost</b>
ultraviolet lamp	1	E	\$45.00
<b>COST OF REUSABLE ITEMS:</b>			<b>\$45.00</b>

<b>INITIAL COST: \$162.00</b>
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## Quanta of Colour - Shopping List

### Tools

- 14 clamp stands
- 28 test tubes (30 mL)
- 14 graduated cylinders (10 mL)
- 7 graduated cylinder (20 mL)
- 7 test tube stands
- 21 test tube clamps
- 7 thermometers
- 7 thermometer clamp
- 14 large beakers
- 7 hot plates
- 7 grease pencils
- 7 balances capable of weighing 0.01 g quantities
- latex gloves, lab coats and safety glasses for each student