



a WOW Lab

**BLUEPRINT**

Glowing Veggies

## Shopping List

The list is divided into consumable and reusable items. Quantities listed assume that the activity will be performed 20 times. Some chemicals, such as potassium chloride, will be bought in excess. 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>
sodium chloride	100 g	E	\$1.50 (for 1 kg)
lithium chloride	75 g	E	\$17.00 (for 100 g)
magnesium chloride	160 g	E	\$14.00 (for 500 g)
potassium chloride	120 g	E	\$11.00 (for 500 g)
copper (II) chloride	280 g	E	\$41.00 (for 500 g)
small potatoes	10	G	\$4.00 (for 1 kg)
small cucumbers	5	G	\$3.50
non-galvanized steel nails	40	H	\$5.00 (for 200)
<b>COST OF CONSUMABLE ITEMS:</b>			<b>\$97.00</b>

<b>REUSABLE ITEMS</b>			
<b>Item</b>	<b>Amount Required</b>	<b>Purchase Code</b>	<b>Total Cost</b>
120 V power cord	1	H	\$12.00
<b>COST OF REUSABLE ITEMS:</b>			<b>\$12.00</b>

<b>INITIAL COST: \$109.00</b>
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## Tools

- paper towels
- safety gear (goggles, lab coats and gloves)
- wire strippers
- alligator clips
- buret stand
- flask clamp with rubber grips
- knife
- oven mitts
- glass or wooden stir sticks
- hot plate
- scoopula
- balance precise to 0.1 g
- 500 ml beaker
- 2 beakers (100 ml) per halide
- 2 graduated cylinders (100 ml) per halide
- pens and tape or wax pencil