



a WOW Lab

BLUEPRINT

Saponification

Shopping List

The list is divided up into consumable and reusable items. Quantities listed assume a class size of 30 students divided into 15 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

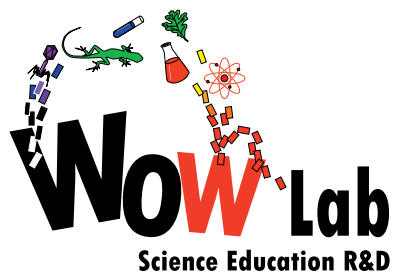
G = Grocery Store
H = Hardware Store
O = Online

P = Pharmacy
S = Specialty Store
U = University

CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
vegetable shortening	1.7 kg	G	\$7.00
clear plastic wrap	1 roll	G	\$4.00
bottle or packets of ketchup	250 mL or 15 packets	G	\$2.00
universal indicator pH paper	1 pack	S	\$15.00
sodium hydroxide pellets	210 g	S	\$30.00 (for 500 g)
latex or nitrile gloves	30 pairs	S	\$1.50 (for a box)
dish cloth or scrap of fabric	30 pieces	—	free
water	1 L	—	free
essential oil (optional)	1 vial	P/G	\$2.00 - \$10.00
COST OF CONSUMABLE ITEMS:			\$60.50 - \$70.50

REUSABLE ITEMS			
Item	Quantity	Purchase Code	Total Cost
soap mould (optional)	6	A	\$30.00
COST OF REUSABLE ITEMS:			\$30.00

INITIAL COST: \$60.50 - \$100.50



a WOW Lab

BLUEPRINT

Saponification - Shopping List

Tools

- 30 beakers (500 mL)
- 15 glass stirring rods or spoons
- microwave or hot plate
- analytical balance
- scoopula
- 15 graduated cylinders (50 mL)
- lab coats
- goggles
- 15 thermometers
- large container or beaker capable of holding 500 mL