



a WOW Lab

BLUEPRINT

Milk Medley

Shopping List

The list is divided into consumable and reusable items. Quantities listed assume a class size of 30 students and that for *Changing Milk into Glue*, they will be split into 15 groups. To simplify planning, the individual costs for each activity are listed starting on page 3. 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

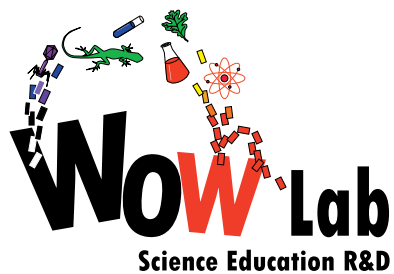
P = Pharmacy

S = Specialty Store

U = University

Entire Activity: Milk Medley

CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
cream (35% fat)	250 mL	G	\$4.00
whole milk	2 cups	G	\$2.00 (for 1 L)
cheesecloth	1 sheet	G	\$1.00
salt (optional)	a few tablespoons	G	\$1.00
powdered non-fat milk	30 tbsp	G	\$4.00 (500 g)
vinegar	21 tbsp	G	\$3.00 (for 250 mL)
baking soda	3 tbsp	G	\$2.00 (for 250 g)
disposable cups	30	D	\$2.00
aluminum foil	1 roll	D	\$1.00
coffee filters	15	D	\$1.00
plastic wrap	1 roll	D	\$1.00
water	1 L	—	free
COST OF CONSUMABLE ITEMS:			\$22.00



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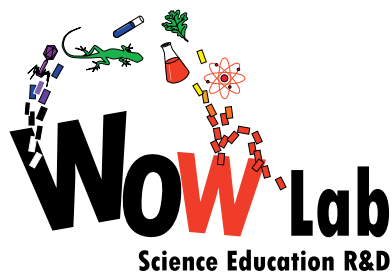
Milk Medley - Shopping List

REUSABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
small mason jars	10	D	\$10.00
COST OF REUSABLE ITEMS			\$10.00

INITIAL COST: \$32.00

Tools

- spoon
- strainer or 500 mL container
- measuring spoons
- measuring cup
- electric kettle
- hot plate or camping stove
- pot
- thermometer
- paper towels
- microwave or hot water bath
- sink



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Milk Medley - Shopping List

Changing Cream into Butter

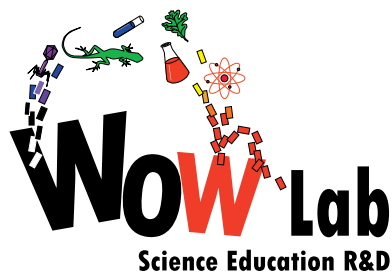
CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
aluminum foil	1 roll	D	\$1.00
cream (35% fat)	250 ml	G	\$4.00
cheesecloth	1 sheet	G	\$1.00
salt (optional)	a few tablespoons	G	\$1.00
COST OF CONSUMABLE ITEMS:			\$7.00

REUSABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
small mason jars	10	D	\$10.00
COST OF REUSABLE ITEMS			\$10.00

INITIAL COST: \$17.00

Tools

- strainer
- sink
- microwave or hot water bath



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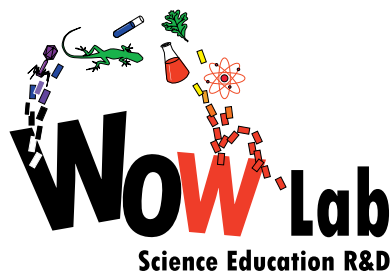
Changing Milk into Glue

CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
powdered non-fat milk	30 tbsp	G	\$4.00 (for 500 g)
vinegar	15 tbsp	G	\$3.00 (for 250 mL)
baking soda	3 tbsp	G	\$2.00 (for 250 g)
disposable cups	30	D	\$1.00
coffee filters	15	D	\$1.00
plastic wrap	1 roll	D	\$1.00
water	1 L	—	free
COST OF CONSUMABLE ITEMS:			\$12.00

INITIAL COST: \$12.00

Tools

- measuring spoons
- measuring cup
- electric kettle
- spoon



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Milk Medley - Shopping List

Changing Milk into Cheese

CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
whole milk	2 cups	G	\$2.00
vinegar	6 tbsp	G	\$3.00
cheesecloth	one sheet	D	\$1.00
COST OF CONSUMABLE ITEMS:			\$6.00

INITIAL COST: \$6.00

Tools

- hot plate or camping stove
- pot
- thermometer
- strainer or 500 mL container
- paper towels
- sink