



a WOW Lab

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Cardiac Pop Pump

Shopping List

The list is divided up into consumable and reusable items. Quantities listed will create one heart model. The shopping list for the *Lung Activity* starts on page three and assumes that students will be divided into 15 groups. Note that I.D. is an abbreviation for inside diameter and O.D. is an abbreviation for outside diameter. 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

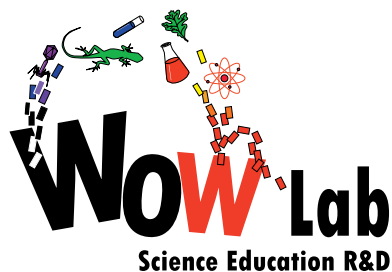
P = Pharmacy

S = Specialty Store

U = University

Cardiac Pop Pump

CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
red food colouring	1 bottle	G	\$2.00 (for 1 pack)
blue balloon	1	D	\$1.00 (for 20)
red balloon	1	D	\$1.00 (for 20)
petroleum jelly	1 tsp	P	\$1.00 (for 50 g)
water	5 L	—	free
COST OF CONSUMABLE ITEMS:			\$5.00



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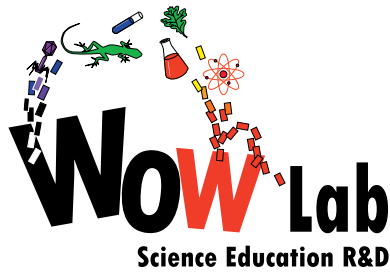
Cardiac Pop Pump - Shopping List

REUSABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
jumbo car sponge	2	H	\$2.00
thick transparent plastic tubing (1/2 in. O.D. x 5/16 in. I.D.)	3 ft.	H	\$3.00
thin transparent plastic tubing (7/16 in. O.D. x 5/16 in. I.D.)	10 ft.	H	\$6.00
1/4 in. straight tubing connector	1	H	\$0.50
thick rubber tubing (3/4 in. O.D. x 1/2 in. I.D.)	1 in.	E	\$2.20 (for 1 ft.)
thin rubber tubing (5/8 in. O.D. x 3/8 in. I.D.)	1 in.	E	\$7.20 (for 1 ft.)
clamp stand	1	E	\$15.00
laboratory clamps	4	E	\$20.00
blue electrical tape (optional)	1 roll	H	\$1.00
red electrical tape (optional)	1 roll	H	\$1.00
2 L pop bottle	4	—	free
COST OF REUSABLE ITEMS:			\$57.90

INITIAL COST: \$62.90

Tools

- duct tape
- funnel
- scissors
- tape measure or ruler
- fume hood
- craft knife
- old screwdriver
- permanent marker
- cutting board
- scrap paper or sticky notes
- soldering iron (optional)



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Cardiac Pop Pump - Shopping List

Lung Activity

CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
latex glove	15	E	\$10.00 (for 100)
sports drink bottle (950 ml)	15	—	free
balloon	15	—	already purchased
elastic band (optional)	15	—	free
COST OF CONSUMABLE ITEMS: \$10.00			

INITIAL COST: \$10.00

Tools

- craft knife
- tape