



a WOW Lab

**BLUEPRINT**

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 3 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

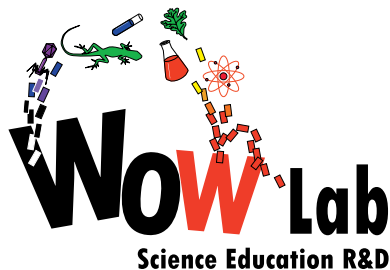
P = Pharmacy

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
<b>COST OF CONSUMABLE ITEMS:</b>			<b>\$5.00</b>



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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.)
blue electrical tape (optional)	1 roll	H	\$1.00
red electrical tape (optional)	1 roll	H	\$1.00
2 L pop bottle	4	—	free
<b>COST OF REUSABLE ITEMS:</b>			<b>\$22.90</b>

**INITIAL COST: \$27.90**

## Tools

- duct tape
- clamp stand
- four clamps
- 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

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

**INITIAL COST: \$10.00**

## Tools

- craft knife
- tape