

a WOW Lab

BLUEPRINT

Polymer Bouncy Balls

Shopping List

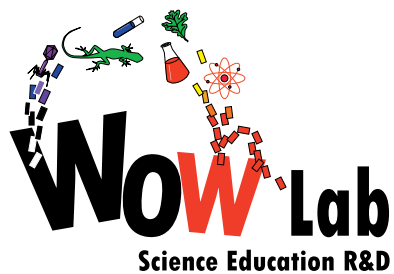
The list is divided into consumable and reusable items. Quantities listed assume a class size of 30 students. The materials listed will make 30 small latex bouncy balls, 30 small PVA/cornstarch bouncy balls and one large latex bouncy ball. The balls are made in paper cups to facilitate clean-up, but beakers or plastic cups can be used instead. The string, metre sticks and sheet of paper are needed to make the ball jump to test the bouncy balls. These materials can be omitted if choosing not to build the ball jump. 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
sheet of paper	1	—	free
hot water	500 ml	—	free
white glue	450 ml	A	\$12.00 (for 1 L)
liquid latex	510 ml	A	\$32.00 (for 1 L)
coffee stir sticks	30	D	\$2.00
paper cups	61	D	\$4.00
vinegar	510 ml	G	\$5.00 (for 1 L)
cornstarch	450 ml	G	\$2.00 (for 1 kg)
borax (sodium tetraborate)	60 ml	G	\$5.00 (for 2 kg)
food colouring (optional)	1 pack	G	\$2.00
COST OF CONSUMABLE ITEMS:			\$64.00



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REUSABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
mixing bowl or medium-sized container	1	D	\$1.00
string or rope	3 ft.	D	\$1.00
binder	1	D	\$1.00
COST OF REUSABLE ITEMS:			\$3.00

INITIAL COST: \$67.00

Tools

- 2 metre sticks
- measuring cup
- measuring spoons
- tape or stapler