

a WOW Lab

BLUEPRINT

Styrofoam Plate Speaker

Shopping List

The list is divided into consumable and reusable items. Quantities listed assume a class size of 30 students split into 15 groups. Amplifiers can often be found at garage sales. 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

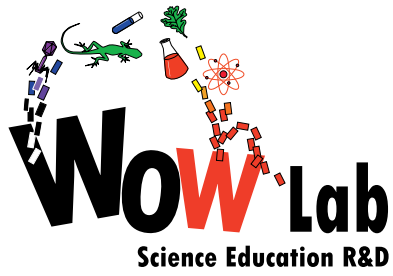
G = Grocery Store
 H = Hardware Store
 O = Online

P = Pharmacy
 S = Specialty Store
 U = University

| CONSUMABLE ITEMS | | | |
|---|------------------------|-----------------------|-----------------------|
| Item | Required Amount | Purchase Code | Total Cost |
| Styrofoam plate | 15 | D | \$1.00 |
| *NIB (neodymium) or other rare earth magnet | 1 | O | \$3.00 |
| enamelled copper wire (28-34 gauge) | 90 m | S (Electronics Store) | \$21.00 (for 800 ft.) |
| business card | 30 | — | free |
| strong cardboard (4 in. x 6 in. sheet) | 15 | — | free |
| cardboard tube (toilet paper roll) | 15 | — | free |
| COST OF CONSUMABLE ITEMS: | | | \$25.00 |

| REUSABLE ITEMS | | | |
|---|------------------------|-----------------------|-------------------------|
| Item | Required Amount | Purchase Code | Total Cost |
| 3.5 mm to RCA stereo audio male-to-male cable | 1 | S (Electronics Store) | \$2.00 |
| home studio amplifier | 1 | — | \$20.00 |
| COST OF REUSABLE ITEMS: | | | \$2.00 - \$22.00 |

INITIAL COST: \$27.00 - \$47.00



a WOW Lab

BLUEPRINT

Styrofoam Plate Speaker - Shopping List

Tools

- hot glue gun and hot glue sticks
- lighter
- craft knife
- permanent marker
- tape
- glue stick
- audio source (MP3 player or computer)
- 2 alligator clip wires