

# Physics Lab Shopping List

## eCamp Physics Lab

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### Materials for Sonic Vibrations Experiments

- 3 popsicle sticks (tongue depressor size)
- 2 index cards
- Scissors, tape, hot glue gun
- 2 film canisters (or plastic snap-lid M&M containers)
- Straw
- Three 7-9" balloons
- 2 water balloons
- 3' string
- Rubber bands (at least two are ¼" thick)
- Disposable cup (plastic, foam, or paper)
- Hexnut (1/4" or smaller)
- Razor or drill to make holes in the film canister
- Scissors, tape

### Weather Station Project

- 2 popsicle sticks
- 1 long strand of hair
- 1 index card
- 12" piece of cardboard (scraps are great)
- 4 foam cups
- 2 popsicle sticks
- 1 pencil with built-in eraser on top
- 2 tacks
- 1 nickel
- Scissors
- Tape
- 7-9" balloon
- Water glass
- Straw or wooden skewer
- Empty water bottle
- Funnel

- Rubbing alcohol
- Clay
- Straw
- Food coloring
- *Optional:* Sunprint Paper and soup can

### Magic Tricks

- Dollar bill
- 2 small paperclips
- 6' of rope
- 1 rubber band
- 1 toilet paper tube
- 1 egg (hard boiled) OR ball that sits on the end of the toilet paper tube without falling in
- Aluminum pie plate or plastic dish (something not breakable)
- Broom handle or ruler
- Shoe with laces
- Four bracelets (optional)

### Materials for Roller Coasters Experiments

- ¾" foam pipe insulation
- Masking tape
- A handful of marbles
- Chairs and tables

### Materials for Catapult Projects

- Popsicle sticks
- Plastic spoon
- 3 rubber bands
- Wood clothespin
- Straw
- Wood dowel that fits inside the straw
- Scissors and Hot glue gun
- Scrap piece of wood

### **Materials for Mousetrap RaceCar**

- Mousetrap (NOT a rat trap)
- Foam block or piece of cardboard
- Four old CDs
- Thin string or fishing line
- Wood dowel or long, straight piece from a wire coat hanger (use pliers to straighten it)
- Straw
- Two wood skewers (that fit inside straw)
- Hot glue gun
- Duct tape
- Scissors
- Four caps to water bottles
- Drill
- Razor with adult help

### **Materials for Marshmallow Launcher and Drawing Machine**

- rubber bands
- marshmallows
- one plastic ruler with a groove down the middle
- four brass fasteners
- five popsicle sticks
- wood clothespin
- two pegs
- thread or wire spool
- 3 washers
- pen
- big sheets of paper for drawing on