

Materials for Experiments

How many of these items do you already have? We've tried to keep it simple for you by making the majority of the items things most people have within reach (both physically and budget-wise), and even have broken down the materials by experiment category so you can decide if those are ones you want to do. *NOTE: This material list is for the entire Experiment section online.*

Ramp Races

Several small balls of different weights (golf ball, racket ball, ping pong ball, marble etc.)
Good size container or mixing bowl
Flour or corn starch or any kind of light powder
Pie tin or other shallow container
Tape measure or yard stick
Optional: Spring scale or kitchen scale

Roller Coasters & Bobsleds

3 pieces $\frac{3}{4}$ " pipe insulation (non-adhesive, black foam)
20 marbles
1 roll masking tape
Aluminum foil
Scissors
Gift wrap tube or clear fluorescent-lamp tube
Stopwatch, yardstick

Catapult

6 rubber bands
2 plastic spoons
9 tongue-depressor popsicle sticks
14 regular-size popsicle sticks
Hot glue gun and glue sticks
wooden clothespin
straw
wood skewer or dowel
Marshmallows, wadded up paper sheets or aluminum foil balls

Pendulums

Yardstick
A washer or a weight of some kind
Stopwatch
4 index cards (any size)
10 Thumb tacks (or brass fasteners)
Big, heavy hex nut
10' string or yarn
6 strong donut-shaped ring magnets

P-Shooter

Mechanical pencil (cheap kind)
2 thin rubber bands
Razor (get adult help)

Optional Items for Grades 9-12:

Baking potato (raw)
Protractor
Straw, string
Rock or key (to use as weight)
Stopwatch
[Acrylic tubing](#) (approx $\frac{1}{2}$ " dia)
 $\frac{1}{4}$ " wood dowel (should fit inside acrylic tube)
Washer (make sure that the inner diameter of washer smaller than outer diameter of acrylic tube, so the washer cannot slide up the tube)