

## Middle School Physics Lab Supply List

Where to purchase supplies:

<http://www.hometrainingtools.com/>

<http://www.arborsci.com/>

### Lab One

- 4 different brands of paper towels that have varying cost (write down the cost of each brand before beginning)
- Stopwatch
- Beaker or bowl
- Graduated cylinder or liquid measuring cup
- Funnel

### Lab Two

- Constant velocity car (requires 2 C batteries) (Find at Arbor Scientific)
- Stopwatch
- Meter stick
- Masking tape
- Rubber bands
- A rock about 3-4 inches in diameter or other heavy object

### Lab Three

- Foam board, approximately 16" x 20"
- 1 cup granulated sugar
- 1 cup of instant mashed potato flakes
- 1 cup flour
- Measuring cups and spoons
- Protractor
- Blocks of wood or books to prop up the board at an angle
- Large plastic garbage bag

### Lab Four

- Workbook/Internet

**Lab Five - The data for Law 2 of this lab is not yet completed.**

- Hardboiled egg
- 2 raw eggs
- Drinking glass
- Water
- Pie pan
- Toilet paper roll (empty!)
- 4 empty soda cans
- Nail
- Nylon fishing line (light weight)
- Bucket of water
- Paper towels
- Meter stick
- Scissors
- Meter stick
- Millimeter ruler
- Sharpies or other water resistant markers

**Lab Six**

- Lab Workbook/Internet

**Lab Seven**

- 2 Eggs
- 2 Styrofoam Cup
- Bag of Cotton Balls
- Box of Toothpicks
- Roll of Paper Towels
- Masking Tape
- 2 Rubber Bands
- 2 Plastic Grocery Bag
- Bucket
- Tape Measure

### **Lab Eight**

- 2 Triple Tandem Pulleys (Find at Home Science Tools)
- 3 feet of fishing line
- Ring Stand and Ring Support
- C clamp
- 5 N Spring Balance
- 500 g mass with hook
- Centimeter Ruler

### **Lab Nine**

- A piece of string 1 meter long
- One-hole rubber stopper
- Bullseye printable page
- Safety glasses for all participants

### **Lab Ten**

- Hammer
- Ruler
- String
- Table edge
- Roll of duct tape to act as a counter-balance
- Single hole punch
- Nail
- Tape
- Cardstock
- 1 inch diameter washer
- Paper clips

### **Lab 11**

- Ruler
- Desk
- Book
- 5 N Spring Scale
- 200 g hooked mass
- Yard or meter stick
- Tape

### Lab 12

- String - about 15 cm long
- Paper
- Pencil
- cm ruler

### Lab 13

- Lab Workbook/Internet

### Lab 14

- Lab Workbook/Internet

### Lab 15

- Einstein's Big Idea DVD

### Lab 16 - Unknown substance identities are in the parent guide

- Baggie of unknown substance 1 (US1)
- Baggie of unknown substance 2 (US2)
- Baggie of unknown substance 3 (US3)
- Baggie of unknown substance 4 (US4)
- $\frac{1}{4}$  cup sugar
- $\frac{1}{4}$  cup salt
- $\frac{1}{4}$  cup baking soda
- $\frac{1}{4}$  cup corn starch
- Graduated cylinder
- Black paper
- Eye dropper
- 12 test tubes
- Test tube holder
- 4 pieces of aluminum foil, about 6"x6" square
- Bunsen burner
- Sharpie
- Magnifying glass
- Distilled water
- Vinegar
- Bunsen burner
- Iodine solution

### Lab 17

- Computer
- Internet
- Java Webstart Launcher
- Lab worksheets

### Lab 18

- Wide mouth bottle (such as a Snapple bottle or Starbucks Frappuccino bottle)
- Rolled up paper strips, about 4 inches long
- Matches or lighter
- 3-4 Small water balloons
- Water
- 2 Regular sized balloons

### Lab 19

- 4 Wide mouth bottle (such as a Snapple bottle or Starbucks Frappuccino bottle)
- Warm water
- Cold water
- Yellow food coloring
- Blue food coloring
- 2 - 3x5 index cards

### Lab 20

- Two clear plastic cups of the same type and size
- Cold water
- Thermometer
- Freezer
- Liquid measuring cup

### Lab 21

- Cardboard milk carton (the kind used for lunches)
- Tea light candle
- Wooden spoon or similar utensil with a handle
- Utility knife

- Nail
- 1/8 inch diameter soft copper tubing about 10-12 inches long (Find Here: <http://www.plumbingsupply.com/coppertubing.html>)
- Tubing cutter (Search for *General Tools 129 Mini Tubing Cutter* on Amazon @\$5)
- One hole punch
- Soda Can
- 6x12 piece of aluminum foil
- Utility scissors
- Bathtub

### Lab 22

- 2 identical wine glasses
- Liquid measuring cup
- Stick matches (or something similar in size and weight)
- Water

### Lab 23

- 3 Refraction cups (Find at Arbor Scientific)
- Water
- Corn Syrup
- Baby oil
- Flashlight
- Pencil
- Protractor
- Straight edge or ruler

### Lab 24

- Student spectroscope
- Incandescent light bulb
- Fluorescent light bulb
- "Black light"
- Small desk lamp
- Sheet of plain white paper
- Colored pencils (all colors of the rainbow)
- Paper

## Lab 25

- 1 battery
- 1 battery holder
- 1 flashlight bulb
- 1 bulb holder
- 3 alligator clips
- Cardboard
- Metal thumbtacks or brads
- Penny
- Nickel
- Quarter
- Key
- Cork
- Plastic button
- Metal button
- Strip of fabric
- Screw
- Nail
- Marble
- String
- Paper
- Pencil
- Paper clip

## Lab 26

- 1 Double battery holder, D cell
- 2 Batteries, D-size
- 4 Bulb holders
- 4 Bulbs, screw base, 3.8-volt
- Switch, knife type, SPST
- 10 pieces of wire, insulated copper, #24 - about 6 inches in length
- Wire cutters or scissors
- Needle nose pliers

## Lab 27

- Bar magnet
- Horseshow magnet
- Clear plastic page protector sleeve
- Tape
- Iron fillings
- 2 batteries, D cell
- 2 Battery holders, for D cell
- Alligator clips
- Wire, insulated copper, #24
- Wire cutters or scissors
- Iron nail
- Paper clips
- Compass
- Neodymium Disc Magnets, 0.5" (Find at Home Science Tools)
- 1 ferromagnetic screw (drywall screw)
- 1 C cell battery