

Materials List

Printed Materials

Can be downloaded at www.physicscentral.com/physicsquest

- PhysicsQuest Manual
- Warsaw Map
- Map Grip Overlay
- Ruler Template
- PhysicsQuest Challenge / Final Report
- Extension Activities

Hardware

The quantities listed here are enough for one group to do each activity.

Activity 1: Checking Temperatures

- Piece of glass about 3" x 3"
These are available at any hardware or frame store.
- Piece of aluminum about 3" x 3"
Aluminum flashing which can be purchased at any hardware store works well.
- 3" x 3" piece of felt
Felt is available at any craft store
- Liquid crystal thermometer
These can be purchased at an aquarium supply store.
- 4 small ice cubes
- 3" x 3" piece of corrugated cardboard
- Paper towels
- Stopwatch
- Scissors

Activity 2: Racing Molecules

- 3 dye tablets
These are available from Educational Innovations for \$5.95 a bag. <http://www.teachersource.com/LightAndColor/ColorMixing/ColorSplashDyeTablets.aspx>
- Bulb thermometer
These are available from science supply stores such as Science Kit & Boreal Labs, http://sciencekit.com/product.asp_Q_pn_E_IG0026485 for about \$4.99 each.
- 3 transparent cups
- Warm and cold water
- Stopwatch
- Calculator

Hardware

Activity 3: Measuring Change

- Glass vial
Available in sets of 12 for \$7.39 at <http://www.pilotvials.com/Screw-Thread-Bottles.html>, size 5.
- Modeling clay, about 2 oz
This is available at any craft supply store.
- Clear drinking straw
- Bulb thermometer
These are available from science supply stores such as Science Kit & Boreal Labs, http://sciencekit.com/product.asp_Q_pn_E_IG0026485 for about \$4.99 each.
- Dye tablet
These are available from Educational Innovations for \$5.95 a bag. <http://www.teachersource.com/LightAndColor/ColorMixing/ColorSplashDyeTablets.aspx>
- Ruler template
- Warm and cold water
- 3 styrofoam cups
- Tape

Activity 4: Creating Heat

- Rubber band
- Film canister
- Bulb thermometer
These are available from science supply stores such as Science Kit & Boreal Labs, http://sciencekit.com/product.asp_Q_pn_E_IG0026485 for about \$4.99 each.
- Yeast
- Hydrogen peroxide (*from any drugstore*)
- Styrofoam cup