**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](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_Qpn_E_IG0026485](http://sciencekit.com/product.asp_Qpn_E_IG0026485) for about $4.99 each.*
- 3 transparent cups
- Warm and cold water
- Stopwatch
- Calculator
Hardware

Activity 3: Measuring Change

- Glass vial

- 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,

- Dye tablet
  These are available from Educational Innovations for $5.95 a bag,

- 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,

- Yeast

- Hydrogen peroxide (from any drugstore)

- Styrofoam cup