Activities: Introduction to Energy

1) Types of Energy Transfer—Radiation/Conduction/Convection
   Watch examples of each type of energy transfer, and write what happens. Include a diagram.
2. Absorption is strongly affected by color. Conduct and describe an activity that demonstrates this using construction paper, thermometers, and an energy source.
3. Use available materials to demonstrate reflection, refraction, opacity, transparency, and translucency. Describe what you do, with diagrams.
4. Sound Energy
   a. Explain how you are able to speak. Include a diagram.

   b. Musical instruments make sounds in various ways. Use simple materials to demonstrate the differences between string, wind, and percussion instruments. Describe what you do.

   c. Much of the sound you hear is created electronically (cell phones, ipods, radios, tv, etc.) Examine available resources and explain how sounds are produced. Include a diagram.