Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date \_\_\_\_\_\_\_\_\_\_\_\_

Energy—It’s In The Bag

Student Handout 1

**WONDER WHY . . .**

Have you ever wondered where you get the energyto live and play? What things in your life require energy? Where do you think energycomes from?

**MATERIALS**

“Energy Bags” containing the following items:

• 2 rubber bands

• 1 small rubber ball

• 2 paper clips

• 2 magnets

• 1 toy car

• 3 gears

• 1 pop-up toy

• 1 ruler (with center groove)

**PROCEDURE**

1. Examine the objects in your “energy bag.”
2. Use the materials in your bag and experiment with ways of making the objects go, run or cause something to happen.
3. Which objects in the bag have potential (stored) energy?
4. Once an initial force is applied, which of the objects in the bag have kinetic (motion) energy?

5. Record or draw the energy motions found in each object.

1. Formulate your own definition of energy as it applies to motions of objects in the “energy bag.”
2. Record the class definition of energy.
3. Assemble the objects in your bag to design a system to cause movement.

**JOURNAL**

Write a brief description of your system of movement.

**VOCABULARY**

Energy:

Potential:

Kinetic:

Work: