Level 2

Module 1

**Activity 2**

The statements below apply to either *Potential Energy* or *Kinetic Energy*. Working alone, with a partner, or in a small group, write either **P** or **K** in the space before each statement to indicate which form of energy is described. Next, write your own definitions of *Potential Energy* and *Kinetic Energy* using only ONE sentence for each. Then, create and draw a symbol for *Potential Energy* and for *Kinetic Energy* to share with the class.

\_\_\_\_\_\_\_\_ Includes visible light waves.

\_\_\_\_\_\_\_\_ Occurs when the nuclei of atoms are split apart.

\_\_\_\_\_\_\_\_ Energy transfer at a distance without direct contact between the source and the receiver.

\_\_\_\_\_\_\_\_ Stored energy, or the energy of position.

\_\_\_\_\_\_\_\_ Includes radiant, thermal, sound, motion, and electrical energy.

\_\_\_\_\_\_\_\_ Movement of substances and objects from one place to another when force is applied.

\_\_\_\_\_\_\_\_ Type of chemical reactions that break their bonding to release thermal energy.

\_\_\_\_\_\_\_\_ Includes chemical, nuclear, elastic, and gravitational energy.

\_\_\_\_\_\_\_\_ Produced by the motion of electrically charged particles.

\_\_\_\_\_\_\_\_ A roller coaster poised at the top of a hill.

\_\_\_\_\_\_\_\_ Energy stored in the bonds between atoms in molecules.

\_\_\_\_\_\_\_\_ Stored energy associated with gravity because of position or place.

\_\_\_\_\_\_\_\_ Sound is produced when a force causes a substance to vibrate.

\_\_\_\_\_\_\_\_ An example is a stretched spring.

\_\_\_\_\_\_\_\_ The internal energy in substances caused by atoms and molecules moving and colliding with each other.

\_\_\_\_\_\_\_\_ Type of chemical reactions that cause molecules to bond.

\_\_\_\_\_\_\_\_ Energy stored in objects because of a force being applied.

\_\_\_\_\_\_\_\_ Stored energy of the nucleus, or center, of an atom.

\_\_\_\_\_\_\_\_ Energy of motion.

\_\_\_\_\_\_\_\_ Movement of energy in longitudinal waves through a substance (solid, liquid, or gas).

\_\_\_\_\_\_\_\_ An example is heat from the earth.

\_\_\_\_\_\_\_\_ A rock is rolling down a hill.

Using only one sentence, write your definition for *Potential Energy,* and create a symbol for it*.* Share with others.

Using only one sentence, write your definition for *Kinetic Energy*,and create a symbol for it*.* Share with others.