

## Energy Test Study Guide

1. What is potential energy?
2. What is kinetic energy?
3. What is mechanical energy?
4. Give three examples of potential energy and three examples of kinetic energy. You may draw a picture to help your explanation if you would like.

| Potential Energy Examples | Kinetic Energy Examples |
|---------------------------|-------------------------|
|                           |                         |
|                           |                         |
|                           |                         |

5. Give an example of each of the following types of energy:
  - a. Sound Energy: \_\_\_\_\_
  - b. Renewable Energy: \_\_\_\_\_
  - c. Chemical Energy: \_\_\_\_\_
  - d. Radiant Energy: \_\_\_\_\_
  - e. Thermal Energy: \_\_\_\_\_
  - f. Non-Renewable Energy: \_\_\_\_\_
  - g. Hydropower: \_\_\_\_\_

6. Give the definition and an example (words or a picture) of each of the following terms:

a. Conduction

- Definition:

- Example:

b. Convection

- Definition:

- Example:

c. Radiation

- Definition:

- Example:

7. Explain how a Newton's Cradle works in terms of potential and kinetic energy. Draw a diagram to assist your explanation if that helps.