

Intro to Energy Worksheet

Name:

Date:

Block:

Part 1. The two basic types of energy

Directions: Determine the best match between basic types of energy and the description provided. Put the correct letter in the blank.

- | | |
|---|--------------------------|
| _____ 1. A skier at the top of the mountain | (a) Kinetic Energy |
| _____ 2. Gasoline in a storage tank | (b) Potential Energy |
| _____ 3. A race-car traveling at its maximum speed | (c) Both forms of Energy |
| _____ 4. Water flowing from a waterfall before it hits the pond below | |
| _____ 5. A spring in a pinball machine before it is released | |
| _____ 6. A match burning | |
| _____ 7. A running refrigerator motor | |

Part 2. Definitions of Energy

Directions: Write down the definition for each of the following terms.

ENERGY:

KINETIC ENERGY:

POTENTIAL ENERGY:

Part 3. Forms of Energy Continued

Directions: Match the energy form(s) to the description provided. A few questions may have more than one answer. You may use these options more than once.

- | | |
|---|----------------|
| _____ 1. Falling rocks from the top of a mountain | (a) Mechanical |
| _____ 2. Release of energy from the Sun | (b) Electrical |
| _____ 3. Energy used to throw a baseball | (c) Heat |
| _____ 4. Batteries | (d) Solar |
| _____ 5. The energy that runs a refrigerator | (e) Chemical |
| _____ 6. Nuclear fission reactors | (f) Nuclear |
| _____ 7. The rumble of thunder from a storm | (g) Sound |
| _____ 8. Food before it is eaten | |

Part 4. Transformation of Energy

Directions: Use the following forms of energy to fill in the table below: **mechanical, electrical, heat, solar, chemical, nuclear, and sound**. The first one has been done for you.

	ORIGINAL ENERGY FORM	FINAL ENERGY FORM
1. Electric motor	electrical	mechanical
2. A battery that runs a moving toy		
3. A solar panel on the roof of a house		
4. A nuclear power plant		
5. Gasoline powering a car		
6. A light bulb		
7. Photosynthesis		