Science 10

Introduction to Energy

Part 1. Definitions: - define each term using full sentences.

Energy:

Kinetic Energy:

Potential Energy:

Part 2. Select the best match from the two basic types of energy.

_____ 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 kinetic and potential 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 3. Forms of Energy: Select the best match from the specific form of energy (there can be more than one answer for each.

_____ 1. Falling rocks from the top of a mountain	a. Mechanical
_____ 2. Release of energy from the sun	b. Electrical
_____ 3. Energy in your body used to throw a ball	c. Heat
_____ 4. Batteries	d. Solar
_____ 5. The energy that runs a stove	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: - Use the following forms of energy to fill in the table below: **mechanical, electrical, heat, solar, chemical, nuclear, and sound**. I've completed the first one for you.

	Original Form of Energy	Final Form of Energy
1. Electric motor	**Electrical**	**Mechanical**
2. A battery that makes a toy move		
3. A solar panel on the roof of a house		
4. A nuclear power plant		
5. Gasoline powering a car		
6. A light bulb is on		
7. Photosynthesis		