“**INTRODUCTION TO ENERGY” WORKSHEET** Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**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

\_\_\_\_\_\_2. Gasoline in a storage tank

\_\_\_\_\_\_3. A race-care traveling at its maximum speed

\_\_\_\_\_\_4. Water flowing from a waterfall before it hits the pond below

\_\_\_\_\_\_5. A spring in a pinball machine before it is released

\_\_\_\_\_\_6. Burning a match

\_\_\_\_\_\_7. A running refrigerator motor

**Part 2. Definitions of Energy.**

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

ENERGY:

KINETIC ENERGY:

POTENTIAL ENERGY:

**Part 3. Forms of Energy.**

Directions: Determine the type of energy for each form (Kinetic, Potential, or Both) and give an example.

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| **Form** | **Definition** | **Type (KE, PE, or Both)** | **Example (for each type if both)** |
| Mechanical (motion) energy | An object’s movement creates energy |  |  |
| Thermal (heat) energy | The vibration and movement of molecules |  |  |
| Radiant energy | Electromagnetic waves |  |  |
| Electrical energy | Movement of electrons  |  |  |
| Chemical energy |  Stored in bonds of atoms and molecules |  |  |
| Nuclear energy | Stored in the nucleus of an atom; released when nucleus splits or combines |  |  |
| Sound energy | Vibration of waves through material |  |  |
| Gravitational energy | Energy of position or height |  |  |