Scientist: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_\_\_\_\_

**Forms of Energy Warm Up**

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. Burning a match

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

Scientist: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_\_\_\_\_\_\_\_

**Forms of Energy Warm Up**

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. Burning a match

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

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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 in heat |  |  |
| Radiant energy | Electromagnetic waves (like from the sun) |  |  |
| Electrical energy | Movement of electrons |  |  |
| Chemical energy | Stored in bonds of atoms and molecules, such as the chemicals in batteries |  |  |
| 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 |  |  |

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

|  |  |  |  |
| --- | --- | --- | --- |
| **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 in heat |  |  |
| Radiant energy | Electromagnetic waves (like from the sun) |  |  |
| Electrical energy | Movement of electrons |  |  |
| Chemical energy | Stored in bonds of atoms and molecules, such as the chemicals in batteries |  |  |
| 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 |  |  |