

Name _____

The First Law of Thermodynamics: Energy Conservation Explained

Multiple Choice Questions

1. What is the first law of thermodynamics often referred to as?
 - a) The law of energy conservation
 - b) The law of energy destruction
 - c) The law of energy creation
 - d) The law of energy transformation

2. According to the first law of thermodynamics, what happens to energy when it's used?
 - a) It disappears entirely.
 - b) It changes forms but is conserved.
 - c) It gets destroyed.
 - d) It multiplies.

3. In the example of a flashlight, what form of energy is produced when it's turned on?
 - a) Chemical energy
 - b) Mechanical energy
 - c) Thermal energy
 - d) Magnetic energy

4. How does the first law of thermodynamics relate to the conservation of energy?
 - a) It states that energy can be created but not destroyed.
 - b) It explains that energy can be destroyed but not created.
 - c) It emphasizes that energy cannot be created or destroyed; it can only change forms.
 - d) It suggests that energy can change forms only if it's destroyed first.

5. Why is understanding the first law of thermodynamics important in our daily lives?
 - a) It helps us create energy.
 - b) It helps us waste energy.
 - c) It allows us to conserve energy and use it efficiently.
 - d) It has no real-life applications.

