

Name _____

Energizing Thermodynamics: Defining Work

Multiple Choice Questions

1. In thermodynamics, what is work?
 - a) A type of energy
 - b) The transfer of energy when a force moves an object
 - c) The act of physical exertion
 - d) A form of potential energy

2. What is the formula for calculating work in thermodynamics?
 - a) Work (W) = Force (F) + Distance (d)
 - b) Work (W) = Force (F) x Distance (d)
 - c) Work (W) = Mass (m) x Acceleration (a)
 - d) Work (W) = Energy (E) x Time (t)

3. When does electrical work occur?
 - a) When an object is pushed or pulled
 - b) When charged particles move due to an electric field
 - c) When a gas expands against a resisting force
 - d) When an object moves through a distance

4. Which type of work involves an expanding gas?
 - a) Mechanical work
 - b) Electrical work
 - c) Expansion work
 - d) Kinetic work

5. How does work relate to energy transfer?
 - a) Work does not involve energy transfer.
 - b) When work is done on an object, it loses energy.
 - c) Work is the process of creating energy.
 - d) Work involves the transfer of energy to or from an object.

