

Name _____

Unlocking the Secrets of Thermodynamics: The Four Laws Explained

Multiple Choice Questions

1. What is the first law of thermodynamics also known as?
 - a) The law of energy conservation
 - b) The law of chaos
 - c) The law of entropy
 - d) The law of absolute zero

2. According to the second law of thermodynamics, what happens to the total amount of usable energy in a system over time?
 - a) It increases
 - b) It stays the same
 - c) It decreases
 - d) It becomes infinite

3. What does the third law of thermodynamics focus on?
 - a) The law of conservation of energy
 - b) The concept of entropy
 - c) Absolute zero
 - d) Thermal equilibrium

4. Why is the fourth law of thermodynamics also called the "zeroth law"?
 - a) It was discovered before the other three laws.
 - b) It has zero relevance in modern science.
 - c) It deals with zero degrees Celsius.
 - d) It defines temperature and thermal equilibrium.

5. If you leave a room tidy, but it becomes messy over time, which law of thermodynamics does this illustrate?
 - a) The first law
 - b) The second law
 - c) The third law
 - d) The fourth law

