

Name \_\_\_\_\_

## The Temperature Tango: Exploring Phase Transitions

### Multiple Choice Questions

1. What is the temperature at which ice melts into water?
  - A. 100 degrees Celsius
  - B. 32 degrees Fahrenheit
  - C. 0 degrees Celsius
  - D. 212 degrees Fahrenheit
  
2. Which phase transition involves water turning into water vapor?
  - A. Freezing
  - B. Boiling
  - C. Melting
  - D. Condensation
  
3. What provides the particles in a solid with the energy needed to turn into a liquid during melting?
  - A. Decreased temperature
  - B. Increased pressure
  - C. Added heat energy
  - D. Reduced humidity
  
4. What happens to the particles in a liquid during boiling?
  - A. They freeze into a solid.
  - B. They gain energy and move more freely.
  - C. They lose energy and become more orderly.
  - D. They become tightly packed.
  
5. Why is it essential to reach a specific temperature for a phase transition to occur?
  - A. Different temperatures have no effect on phase transitions.
  - B. Temperature determines the type of phase transition.
  - C. Phase transitions depend only on pressure.
  - D. Phase transitions occur randomly.

