

Name \_\_\_\_\_

## Pressure's Magical Effects on Matter: The Mystery of the Critical Point

### Multiple Choice Questions

1. How does increasing pressure affect matter's phase?
  - A. It has no effect on matter.
  - B. It causes matter to change its phase.
  - C. It raises the temperature of matter.
  - D. It decreases the density of matter.
  
2. What happens to water when it reaches its critical point?
  - A. It turns into a solid.
  - B. It transforms into a supercritical fluid.
  - C. It becomes a gas.
  - D. It evaporates into steam.
  
3. What is a practical application of the critical point in the food industry?
  - A. Extracting caffeine from coffee beans
  - B. Making ice cream
  - C. Creating carbonated beverages
  - D. Freezing fruits and vegetables
  
4. How does reduced atmospheric pressure at high altitudes affect the boiling point of water?
  - A. It increases the boiling point.
  - B. It has no effect on the boiling point.
  - C. It decreases the boiling point.
  - D. It turns water into a solid.
  
5. What phase change occurs when a can of aerosol spray is used?
  - A. Sublimation
  - B. Deposition
  - C. Condensation
  - D. Vaporization

