

Name \_\_\_\_\_

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

### Open-Ended Response Questions

1. Discuss the significance of understanding pressure-related phase changes in industries such as aerospace, scuba diving, and food processing.
2. Compare and contrast the behavior of matter at its critical point with its behavior in the liquid and gas phases.
3. Explore the environmental benefits of using supercritical fluids in various applications and their potential to replace traditional solvents.
4. Explain why understanding the relationship between pressure and phase changes is essential for the design and operation of steam engines and refrigeration systems.

