

Name _____

Water's Dance: The Changing Density with Temperature

Short Answer

1. Explain why water behaves differently than most substances when it comes to density changes with temperature.
2. At what temperature does water reach its maximum density, and what happens to its density as it cools below that temperature?
3. Describe the unique crystalline structure that forms when water freezes and why it makes ice less dense than liquid water.
4. How does water's density anomaly affect the formation of ice cubes in your drink?
5. What are the practical implications of water's changing density with temperature in terms of weather patterns and ocean currents?

