



States of Matter and Properties of Water

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| 1. Solid | State of matter that has a definite shape and volume. |
| 2. Liquid | State of matter that has no definite shape but has a definite volume. |
| 3. Gas | State of matter with no definite shape or volume. |
| 4. Heat | The transfer of thermal energy through the motion of particles within a substance. |
| 5. Temperature | A measurement of the motion of the particles in a substance. |
| 6. Freezing | The change of state from a liquid to a solid. |
| 7. Melting | The change in state from a solid to a liquid. |
| 8. Evaporation | The change of state from a liquid to a gas at the surface of a substance. |
| 9. Boiling | The change of state from a liquid to a gas through the body of a substance. |
| 10. Condensation | The change in state from a gas to a liquid. |
| 11. Deposition | The change of state from a gas to a solid. |
| 12. Sublimation | The change of state from a solid to a gas. |
| 13. Solute | A substance that is dissolved in a solution. |
| 14. Solvent | The substance in which the solute dissolves. |
| 15. Cohesion | The tendency of water molecules to stick together due to hydrogen bonding. |
| 16. Adhesion | Water molecules sticking to other things due to attraction of charges from water's polarity. |
| 17. Capillary Action | |
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The tendency of water molecules to move along the surface of a substance due to adhesion, while also pulling up other water molecules due to cohesion.

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| 18. Surface Tension | Barrier that forms on the surface of water due to its cohesive properties, preventing it from rupturing and allows small insects to walk on the water. |
| 19. Universal Solvent | Water's polarity allows it to dissolve all other polar and ionic substances. |
| 20. Polarity | Molecules, such as water, that have different charges on opposite ends. |
| 21. Hydrophilic | Substances that dissolve in water. (water loving) |
| 22. Hydrophobic | Substances that do not dissolve in water (water fearing) |
| 23. Conduction | Transfer of thermal energy by direct contact |
| 24. Convection | Transfer of thermal energy within fluids |
| 25. Radiation | Transfer of thermal energy by electromagnetic waves |
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