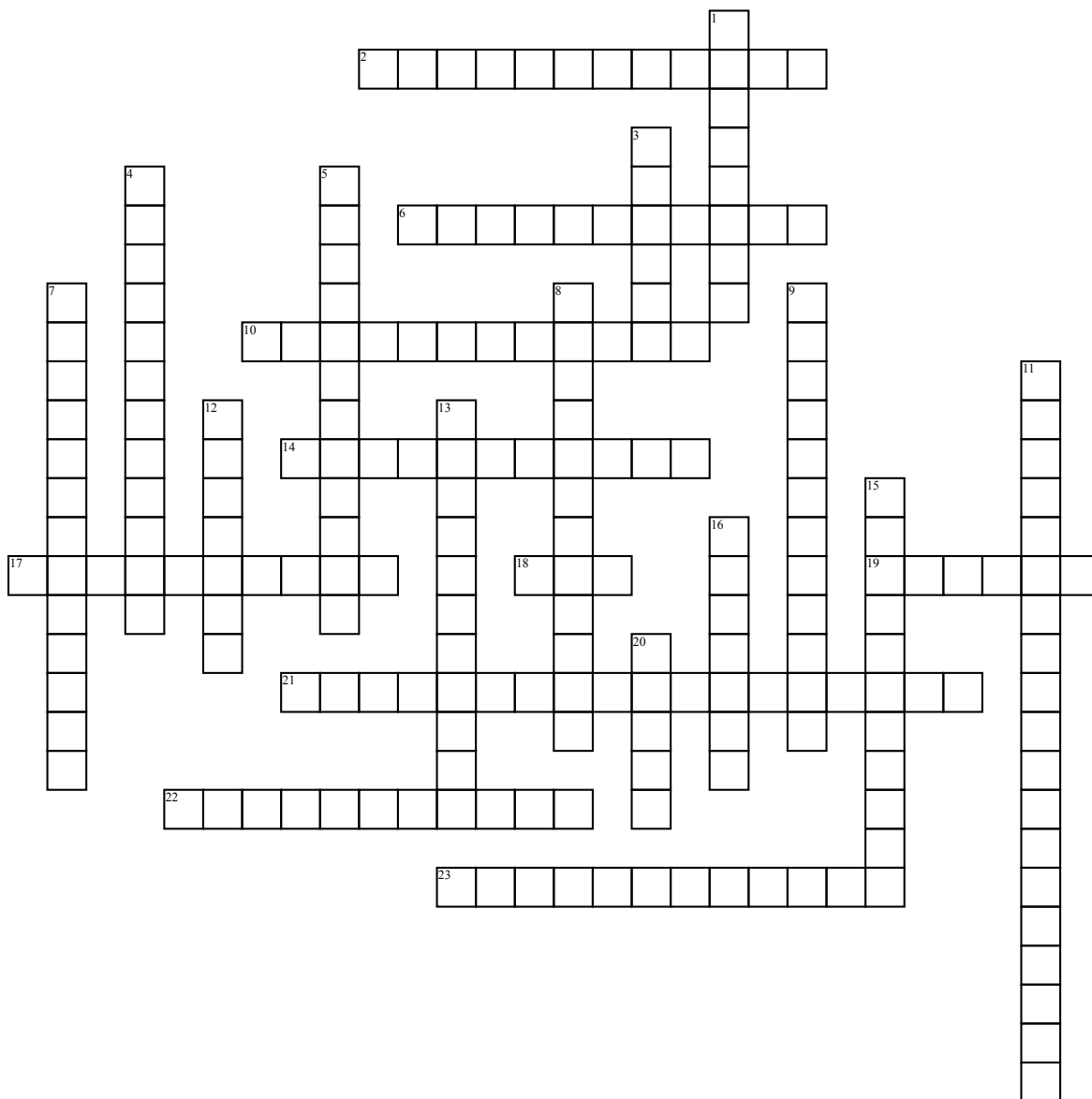


Unit 9 : States of Matter



Across

- 2. the rate a temperature changes
- 6. the process of becoming a vapor
- 10. the number of calories required to raise the temperature of 1 gram of a substance 1°C, or the number of BTU's per pound per degree F
- 14. an apparatus for measuring quantities of heat
- 17. the settling of particles or sediment onto a surface. The particles may originate from a vapor, solution, suspension, or mixture
- 18. very far apart and move freely indefinite shape and indefinite volume
- 19. are tightly packed, but far enough apart to slide over one another indefinite shape and definite volume
- 21. heat absorbed by a unit mass of a material at its boiling point in order to convert the material into a gas at the same temperature

- 22. the act, fact, or process of subliming
- 23. the heat required to raise the temperature of a substance one degree

Down

- 1. the withdrawal of heat to change something from a liquid to a solid
- 3. ionized gas. good product of electricity and affected by magnetic fields both indefinite shape and indefinite volume
- 4. heat absorbed by a unit mass of a solid at its melting point in order to convert the solid into a liquid at the same temperature
- 5. the process of changing from a gaseous to a liquid or solid state
- 7. the energy of a body or a system with respect to the motion of the body or of the particles in the system
- 8. a change from one state (solid or liquid or gas) to another without a change in chemical composition

- 9. a diagram representing the limits of stability of the various phases in a chemical system at equilibrium, with respect to variables such as composition and temperature

- 11. that matter is made of small particles all in random motion
- 12. the application of heat to change something from a liquid to a gas
- 13. the particular temperature and pressure at which the solid, liquid, and gaseous phases of a given substance are all at equilibrium with one another.
- 15. the measurement of heat
- 16. the process whereby heat changes something from a solid to a liquid
- 20. are tightly packed, vibrating about a fixed position definite shape and definite volume