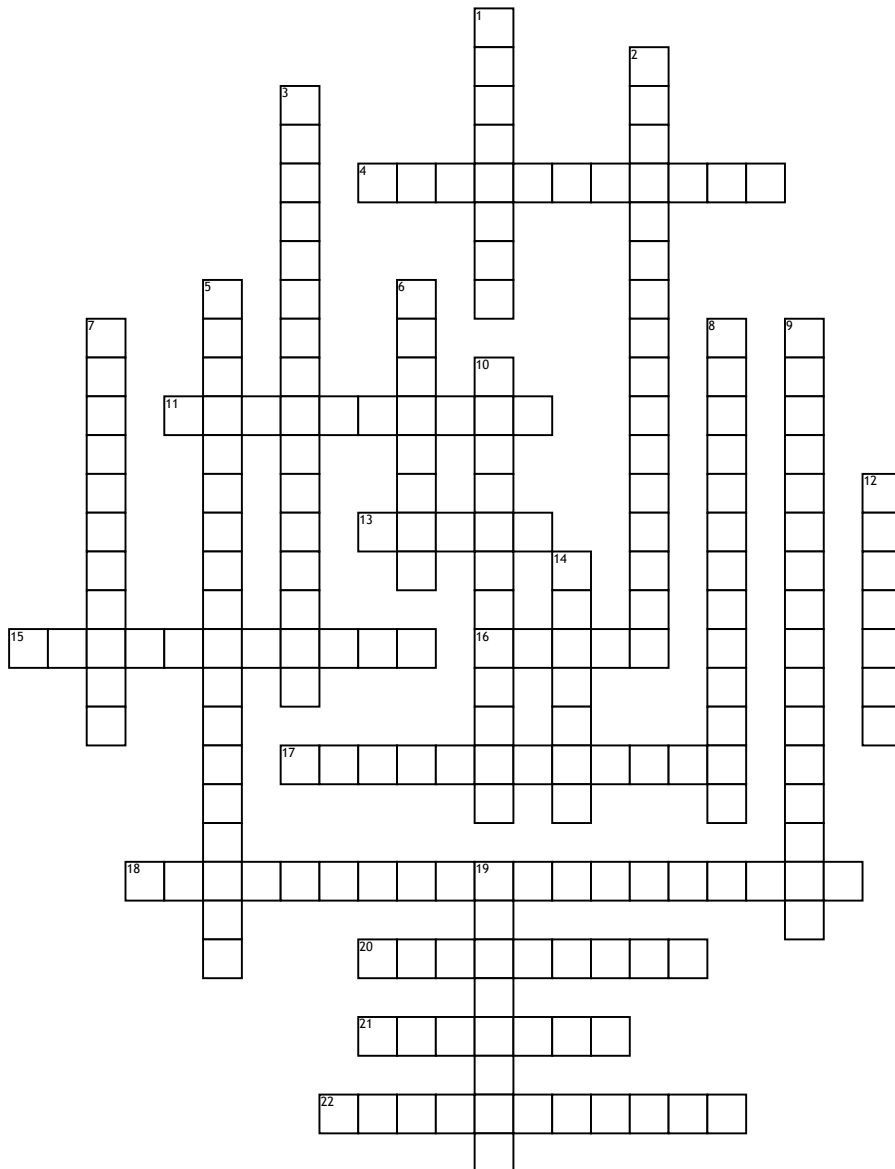


Chapter 10 Crossword



Across

4. the process in which a solid changes directly into a gas

11. the change of state from a gas to a solid

13. a nonsolid state of matter in which the atoms are free to move past each other

15. the temperature and pressure conditions at which the solid, liquid, and gaseous phases of a substance coexist at equilibrium

16. one of the four states in which a substance can exist

17. the change of state from a gas to a liquid

18. the temperature above which a substance cannot exist in the liquid state

20. the movement of particles from regions of higher density to regions of lower density

21. a solid whose atoms, ions, or molecules are arranged in a definite pattern

22. the change of a substance from a liquid to a gas

Down

1. an imaginary gas whose particles are infinitely small and do not interact with each other

2. the lowest pressure at which a substance can exist as a liquid at the critical temperature

3. a collision between ideally elastic bodies in which the final and initial kinetic energies are the same

5. a liquid that is cooled below its normal freezing point without becoming a solid

6. the smallest portion of a crystal lattice that shows the three dimensional pattern of the entire lattice

7. the process in which a solid changes into a gas

8. the temperature at which a solid and a liquid are in equilibrium at 1 atm pressure

9. the arrangement of atoms, ions, or molecules in a regular way to form a crystal

10. the temperature and pressure at which a liquid and a gas are in equilibrium

12. the conversion of a liquid to a vapor within the liquid as well as at the surface of the liquid

14. a gas that does not behave completely like a hypothetical ideal gas because of the interactions between the gas molecules

19. the passage of a gas under pressure through a tiny opening