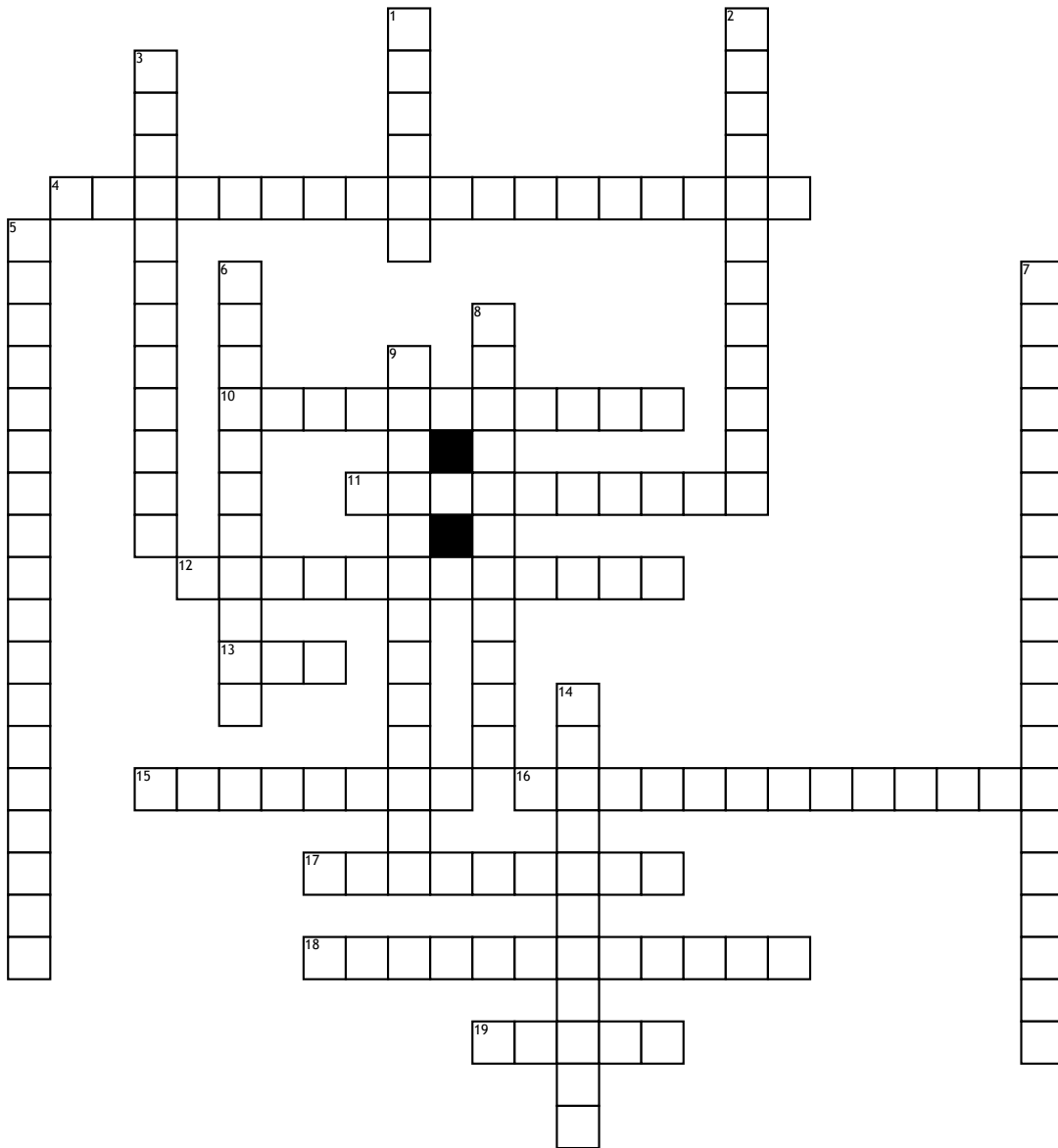


# Chapter 3 Review



**Across**

- 4. A chemical reaction that releases energy into its surroundings?
- 10. The phase change in which a substance changes from a solid to a gas or vapor without changing to a liquid first?
- 11. the phase change in which a gas or vapor changes directly into a solid without first changing into a liquid?
- 12. when a substance changes from a liquid into a gas?
- 13. state of matter in which material has neither a definite shape nor a definite volume?
- 15. The result of a force distributed over an area?
- 16. the pressure caused by the collisions of this vapor and the walls of the container?

- 17. The law that states that the volume of a gas is inversely proportional to its pressure if the temperature and the number of particles are constant.
- 18. the phase change in which a substance changes from a gas or vapor to a liquid.
- 19. state of matter in which materials have a definite shape and a definite volume?

**Down**

- 1. state of matter in which a material has a definite volume but not a definite shape?
- 2. The energy a substance must absorb in order to change from a solid to a liquid.
- 3. A temperature of zero kelvins?

- 5. The energy a substance must absorb in order to change from a liquid to a gas?
- 6. the reversible physical change that occurs when a substance changes from one state of matter to another?
- 7. A change in which a system absorbs energy from its surroundings?
- 8. the process that changes a substance from a liquid to a gas at temperatures below the substances boiling point.
- 9. the energy an object has due to motion?
- 14. the law that states the volume of a gas is directly proportional to its temperature in kelvins if the pressure and the number of particles of the gas are constant?