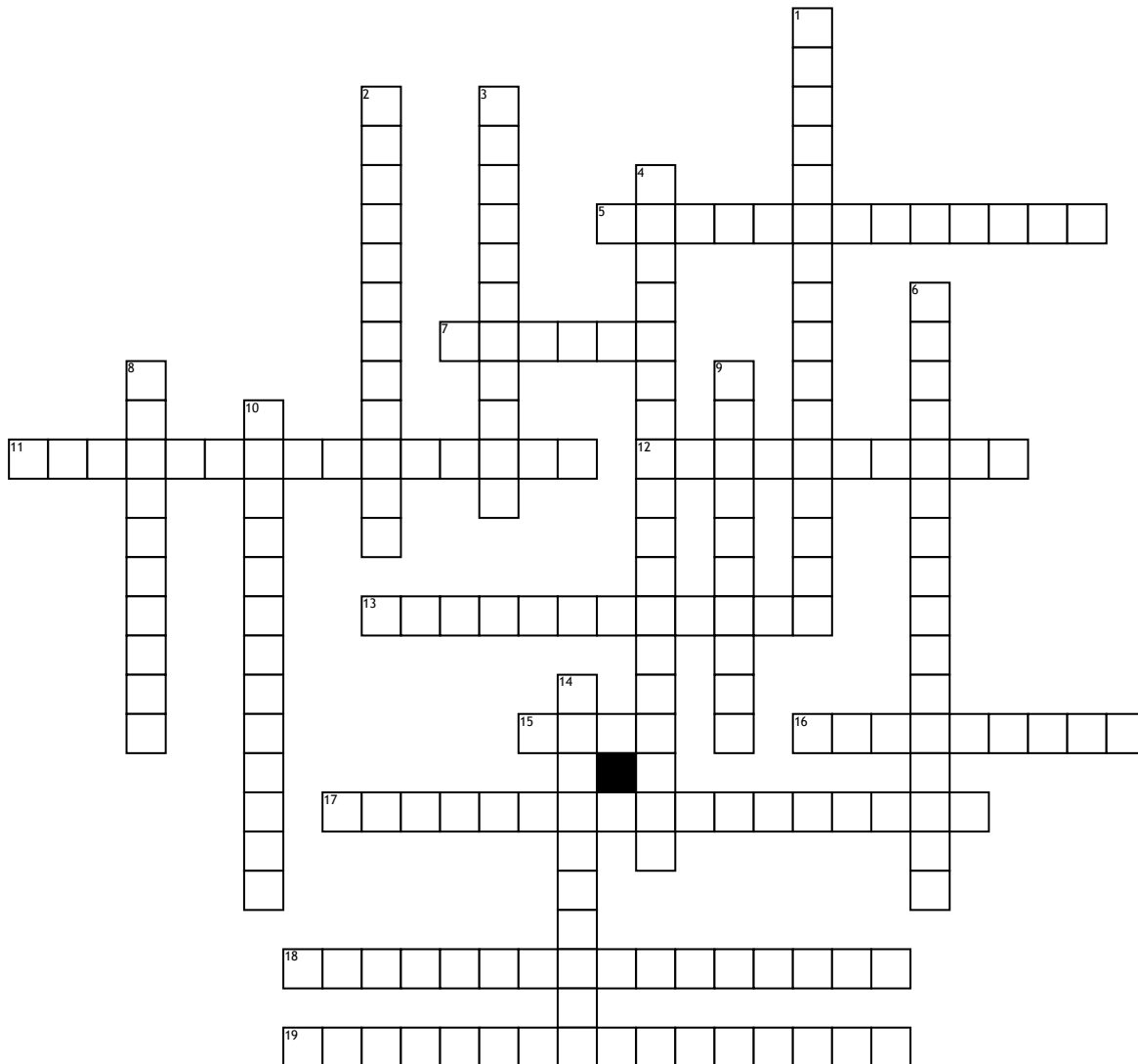


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Chapter 5



## Across

5. sum of the kinetic energy and the potential energy of all the particles that make up an object

7. space that contains little or no matter

11. stored energy

12. transfer of thermal energy between materials because of collisions between particles

13. device that uses electric energy to pump thermal energy from a cooler location to a warmer location

15. movement of thermal energy from a warmer object to a cooler object

16. transfer of thermal energy from one material to another by electromagnetic waves

17. movement of fluids in a cycle because of convection

18. material through which thermal energy does not flow easily

19. increase in a material's volume when the temperature is increased

## Down

1. material through which thermal energy flows easily

2. amount of thermal energy it takes to increase the temperature of 1 kg of material by 1C

3. represents the average kinetic energy of the particles that make up a material

4. decrease in a material's volume when the temperature is decreased

6. device that converts electric energy into thermal energy

8. a device that regulates the temperature of a system

9. transfer of thermal energy by the movement of particles from one part of a material to another

10. the energy an object or particle has because it is moving

14. machine that converts thermal energy into mechanical energy