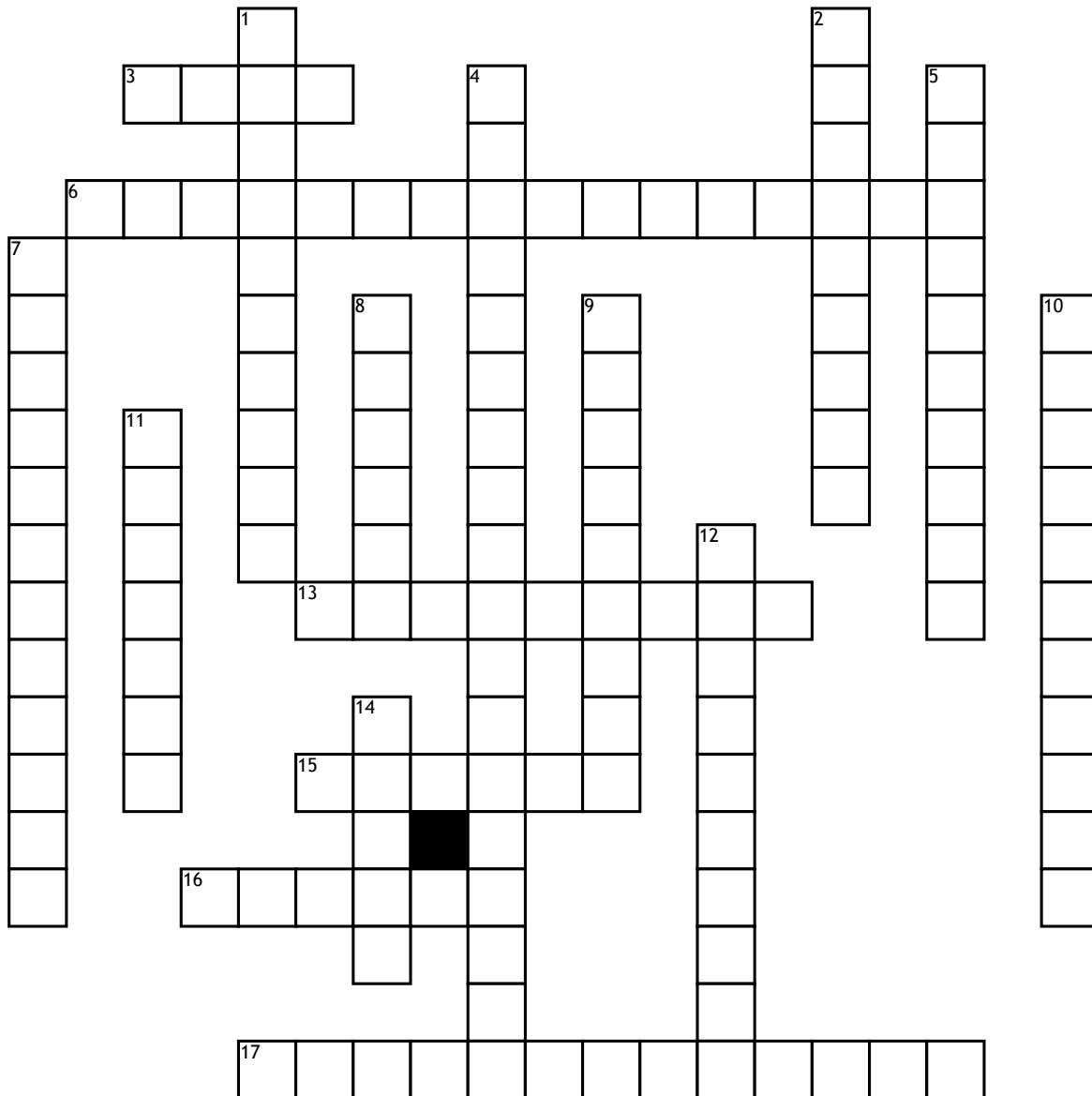


Name: _____ Date: _____ Period: _____

Thermal Energy Transfer



Across

3. The FLOW of thermal energy from an area that has a higher temperature to an area that has a lower temperature.

6. An increase in the size of a substance when the temperature is increased

13. a substance or device that does not transfer thermal energy easily

15. Conduction must occur between two

16. Heat always flows from a hotter object to a _____ object.

17. The total energy of motion in the particles of a substance.

Down

1. On the _____ scale 32 degrees is freezing point

2. Heat transferred by electromagnetic waves would be

4. when two objects are at the same temperature and no heat flows

5. the flow of heat through a liquid or gas, causing hot parts to rise and cooler parts to sink

7. The coldest possible temperature

8. C+273 is the formula for what scale?

9. As the temperature of an object decreases the object

10. Average kinetic energy of moving molecules

11. On the _____ scale 100 is boiling point

12. the transfer of heat by direct contact of two solid objects, resulting in a temperature change

14. unit used to measure thermal energy.