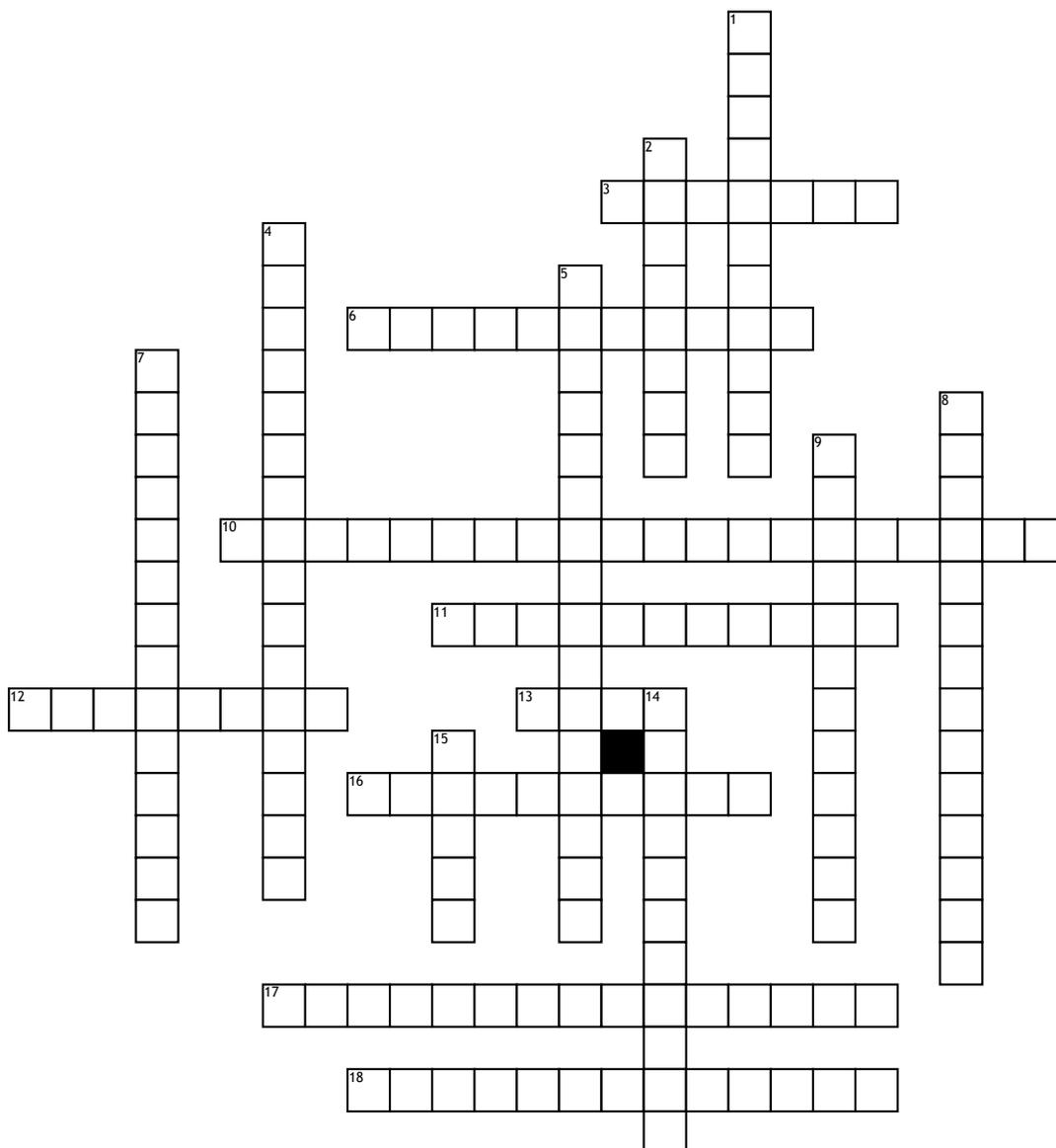


Name: \_\_\_\_\_

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

# Thermochemistry



## Across

3. a measure of the degree of randomness of the particles in a system

6. total surface exposed to outside environment

10. The law of \_\_\_\_\_ states energy cannot be created or destroyed (3 words)

11. When the system gains heat the reaction is \_\_\_\_\_.

12. a substance that changes the rate of a chemical reaction without becoming part of the products

13. Always flows from warm to cold

16. When the system loses heat, the reaction is \_\_\_\_\_.

17. the set of assumptions regarding collisions and reactions

18. a measure of the amount of solute in a given amount of solvent

## Down

1. Device used to measure the heat absorbed or released in a chemical change

2.  $\Delta H$  measures the change in \_\_\_\_\_

4. energy released as heat by the complete combustion of one mole of a substance

5. the minimum energy required to begin a chemical reaction

7. amount of energy released or absorbed as heat during a reaction (3 words)

8. the equation that includes the quantity of heat released or absorbed during the reaction is a \_\_\_\_\_ equation

9. amount of heat energy required to raise the temperature of one gram of substance by one degree Celsius

14. a measure of the average kinetic energy of the particles in a substance

15. SI unit for heat energy