

Name _____ Date _____ Period _____ Points _____/20

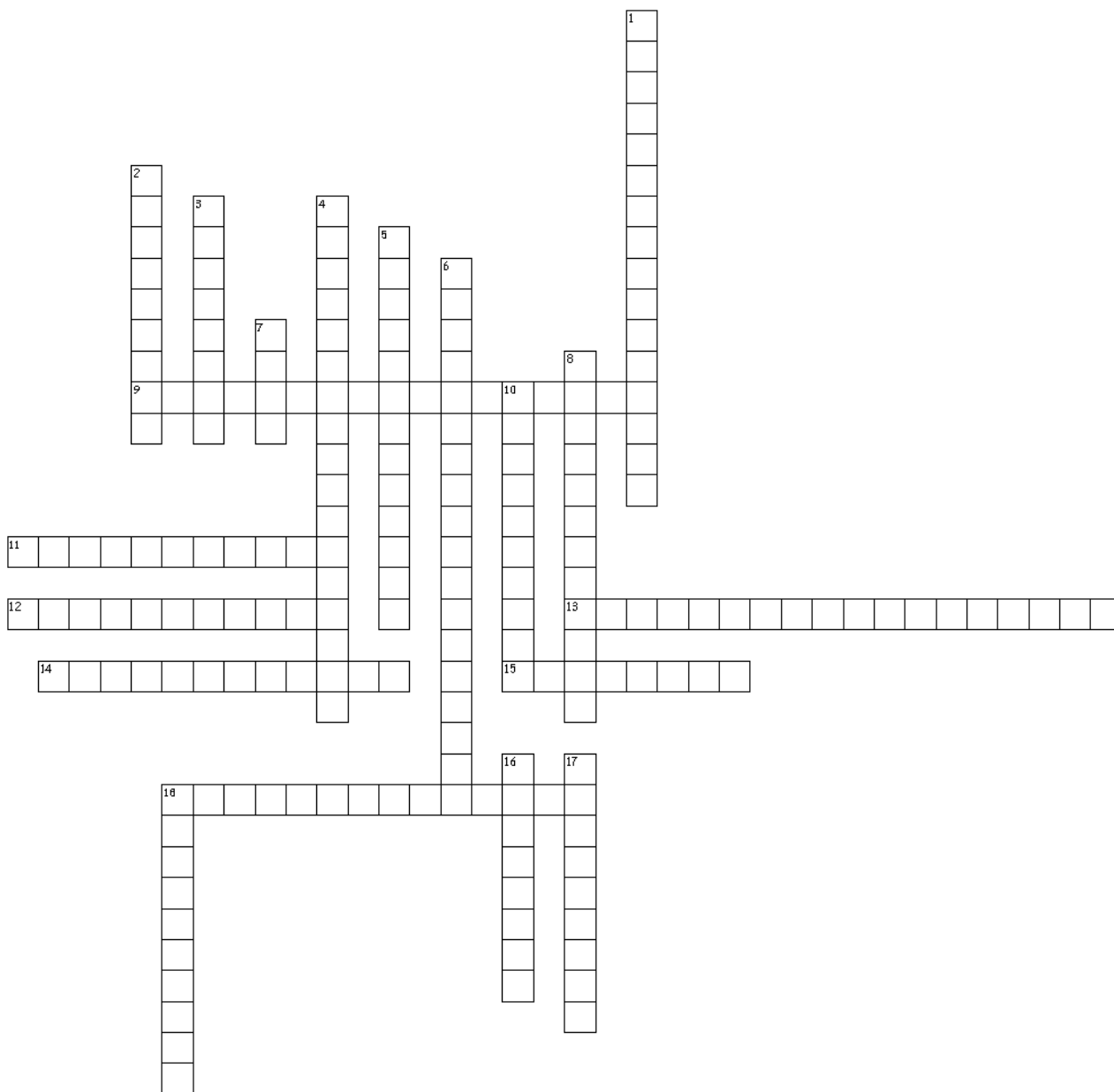
Chapter 7: Chemical Reactions Crossword Puzzle

All words must be placed in the puzzle and in the blanks in order to receive credit.

SPS2. Students will explore the nature of matter, its classifications, and its systems for naming types of matter.

d. Demonstrate the Law of Conservation of Matter in a chemical reaction.

e. Apply the Law of Conservation of Matter by balancing different types of chemical reactions.



Across

9. _____ - _____ - a chemical reaction in which one element takes the place of another element in a compound.
11. _____ - a chemical reaction that absorbs energy from its surroundings.
12. _____ - a state in which the forward and reverse paths of a physical or chemical change take place at the same rate.
13. _____ - a chemical reaction in which the conversion of reactants into products and the conversion of products into reactants happens at the same time.
14. _____ - numbers that appear before a formula in a chemical equation to show the relative proportions of each reactant and product.
15. _____ - a substance that affects the rate of a chemical reaction without being used up in the reaction.
18. _____ - the energy stored in chemical bonds.

Down

1. _____ - a representation of a chemical reaction in which the reactants and products are expressed as formulas.
2. _____ - the mass of one mole of a substance.
3. _____ - a substance that undergoes change in a chemical reaction.
4. _____ - _____ - a chemical reaction in which two compounds exchange positive ions and form two new compounds.
5. _____ - a chemical reaction in which a compound breaks down into two or more simpler substances.
6. _____ - _____ - a chemical reaction in which electrons are transferred from one reactant to another.
7. _____ - an amount of a substance that contains approximately 6.02×10^{23} particles of the substance.
8. _____ - the rate at which reactants change into products over time.
10. _____ - a chemical reaction that releases energy to its surroundings.
16. _____ - new substances formed as a result of a chemical reaction.
17. _____ - a chemical reaction in which two or more substances react to form a single substance.
18. _____ - a chemical reaction in which a substance reacts rapidly with oxygen, often producing heat and light.