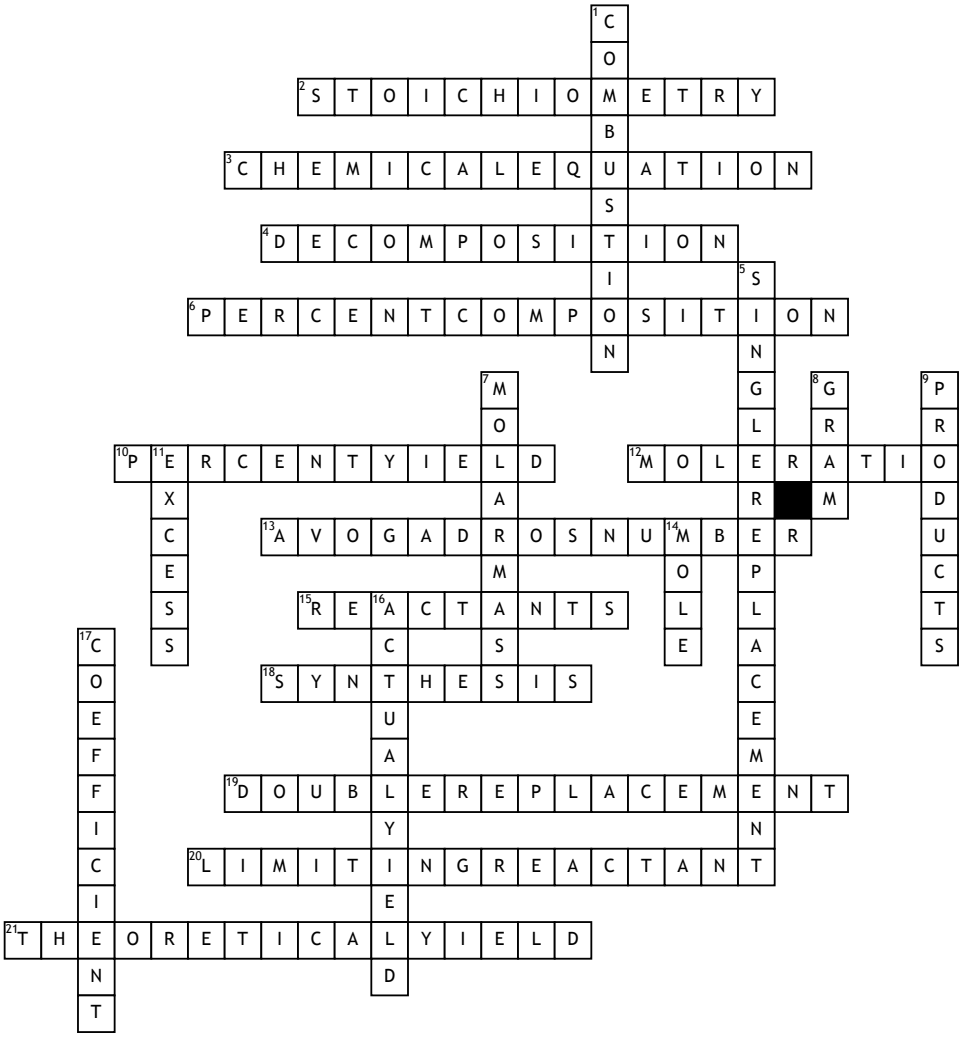
Name: _____ Date: _____

Stoichiometry/Chemical Reactions



Across

2. The area of chemistry involving the calculations of quantities of substances involved in chemical reactions

3. A representation of a chemical reaction using symbols and numbers to show the relationships between the reactants and products

4. AB -----> A + B

6. The percent by mass of each element in a compound

10. The ratio of the actual yield as compared to the theoretical yield expressed as a percentage

12. A conversion factor derived from the coefficients of the quantities of substances involved in chemical reactions

13. 6.02 x 10^23

15. The chemicals which are put into a chemical reaction and are on the left side of the reaction

18. A + B --------> AB

19. AB + CD ------> AD + CB

20. The substance that runs out in a chemical reaction, thus controlling the amount of product(s)

21. The amount of product that could form based on a balanced chemical equation

Down

1. A compound containing carbon and hydrogen is burned in the presence of oxygen

5. A + BC -----> AC + B

7. The mass of one mole of a substance

8. The measurement of the mass of the substances in a chemical reaction

9. The chemicals present on the right side of a chemical reaction, that are only present after the the chemical reaction has begun

11. The reactant that is leftover after a reaction comes to completion

14. The amount of a substance

16. The amount of product that is actually formed when a reaction is carried out in the laboratory

17. The number in front of a balanced formula showing how much of that reactant or product is present

Word Bank

percent yield	reactants	single replacement	synthesis	decomposition
molarmass	excess	mole	stoichiometry	gram
actual yield	double replacement	products	limiting reactant	chemical equation
moleratio	percent composition	avogadros number	coefficient	combustion
theoretical yield				