

Name: _____

N.B. p. _____

Chapter 7 Study Guide

Single/Science

1. Describe the difference in a physical & chemical changes.
2. List 3 examples of a chemical change.
3. What is a precipitate? Is it evidence of a physical or chemical change?
4. List, describe, & give an example of 5 types of chemical reactions.

Type	Description	Example

5. List 4 factors that can change the rate of a chemical reaction.
6. A catalyst _____ the amount of energy needed to start a reaction, and at the end of the reaction, it _____.
7. State the law of conservation of matter.

8. Because of the above law, chemical equations must be _____.

9. Look at the following equation: $2\text{Na} + \text{F}_2 \rightarrow 2\text{NaF}$

Which element(s) or compound(s) contain coefficient(s): _____

Which element(s) or compound(s) contain subscript(s): _____

List the reactants: _____ List the products: _____

10. Balance the following equations & identify the type of reaction:



For #11-15, write Ex if the reaction is exothermic & En if the reaction is endothermic.

11. If the reactants have more energy than the products, the reaction is _____.

12. If the products have more energy than the reactants, the reaction is _____.

13. If you mix chemicals together & light is given off, the reaction is _____.

14. If you mix chemicals together & heat is given off, the reaction is _____.

15. If you mix chemicals together & the temperature drops, the reaction is _____.

16. List 3 examples of how life, industry, & technology use chemical reactions.

17. Enzymes in your body are examples of _____, which speed up chemical reactions.

18. Cellular respiration for living things is an example of which type of chemical reaction?