Topic:Ch 8

**QUESTIONS**

**TEXTBOOK**

***Page(s)* ANSWERS**

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| What is A + B -> AB represent? | Pg 276 | A synthesis reaction. |
| What do AB -> A + B represent? | Pg 277 | A decomposition reaction. |
| What do AB + C -> AC + B represent? | Pg 278 | A single displacement reaction. |
| What do AB + CD -> AC + BD represent?. | Pg 279 | A double displacement reaction. |
| What do AB + O -> AO + B + Heat represent? | Pg 280 | A combustion reaction. |
| What observations suggest a chemical reaction? | Pg 275 | Release of energy, production of gas, a change in color, and the formation of a precipitate would be observations suggesting a chemical reaction. |
| How does one balance chemical equations? | Pg 263 | Balance chemical equations by adding coefficients to the elements. |
| What is a precipitate? | Pg 262 | A precipitate is a solid that is produced as a result of a chemical reaction a solution and also separates from the solution. |
| What does a formula equation represent? | Pg 264 | The formula equation represents the reactants and products of a chemical reaction by their symbols or formulas. |

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| SUMMARY: | Four observations that suggest a chemical reaction is taking place are the evolution of |
| energy as heat and light, the production of gas, change in color, and the formation of a p |
| precipitate. A balanced chemical equation represents the identities and amounts of  |
| reactants and products in a chemical equation. A + B -> AB is a synthesis reaction. |
| AB -> A + B is a decomposition reaction. AB + C -> AC + B is a single displacement  |

reaction. In a combustion reaction, a substance combines with oxygen, releasing energy as light and heat. Activity series list the elements in order of their chemical reactivity and are useful in predicting whether a chemical reaction will occur. Chemists determine this through experiments.