

## Chapter 8 - Chemical Equations and Reactions

### 8-1 Describing Chemical Reactions

#### I. Introduction

##### A. Reactants

1. Original substances entering into a chemical rxn

##### B. Products

1. The resulting substances from a chemical rxn



##### C. Chemical Equation

1. Represents with symbols and formulas, the identities and relative amounts of the reactants and products in a chemical rxn

#### II. Indications of a Chemical Reaction

##### A. Evolution of Heat and Light

1. Evidence of energy being released (exothermic rxn)

##### B. Production of a Gas

1. CO<sub>2</sub>, H<sub>2</sub>, H<sub>2</sub>S are some gases produced by chemical rxns



##### C. Formation of a Precipitate

1. Precipitate is a solid that is produced as a result of a chemical rxn in solution



#### III. Characteristics of Chemical Equations

##### A. The equation must represent known facts

1. This can be done with a word equation

"hydrogen reacts with oxygen to form water"



##### B. The equation must contain the correct formulas for reactants and products

1. This is done with a formula equation



##### C. The law of conservation of atoms must be satisfied

1. Balancing is done with coefficients - small whole numbers that appear in front of a formula



##### D. Additional symbols used in Chemical equations

# Chemical Equations And Reactions Chapter Test Answers

**William Lloyd Evans**



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