# Kingsway Regional Middle School Chemical Reactions Science Study Guide

#### Vocab

Chemical Reaction: The process by which one or more substances change to produce one or more different substances.

Reactant: A substance that takes part in and undergoes a change during a chemical reaction.

$$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$$

Product: A substance that is produced during a chemical reaction.

$$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$$

Coefficient: A number placed in front of a symbol or formula in a chemical equation. It shows how many of that substance are in the chemical reaction, acting like a multiplier to balance the equation.

Subscript: A number written below and to the right of a chemical symbol in a chemical formula. It shows how many atoms are in that molecule.

$$CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$$

Law of Conservation of Matter/Mass: The Law of Conservation of Matter states that matter cannot be created or destroyed, but simply rearranged.

Chemical Equation: Chemical formulas and symbols written to represent a reaction.

# **Chemical Interactions Study Guide**

**Neil E. Schore** 

### **Chemical Interactions Study Guide:**

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