

May 8, 2019

Chapter 6: Chemical Reactions

Types of Chemical Equations:

- Word vs Chemical

Warm- Up

Graphite can be transformed into diamond by applying a temperature of °C.



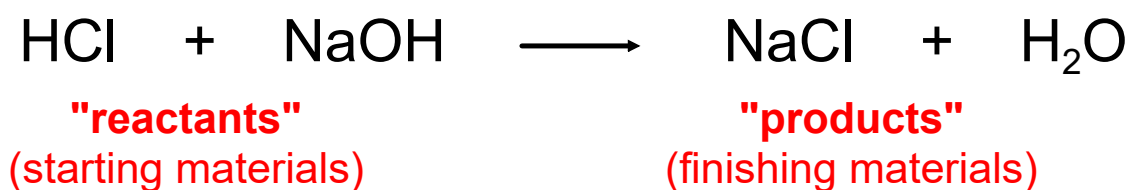
Chemical Reactions

What is a chemical reaction?

- change that takes place when a substance(s) (reactants) change into one or more new substances (products).
- Each individual substance's chemical formula is separated from others by a plus sign.
- the reactants are separated from the products by an arrow \longrightarrow (read aloud as yields)

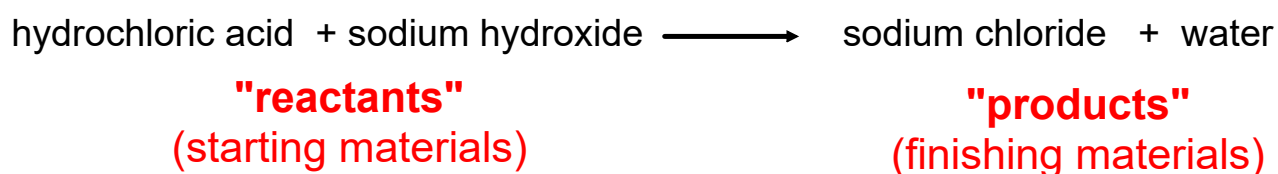
What is a chemical equation?

- a written representation of a chemical reaction using chemical formulas for reactant and products



What is a word equation?

- one way of representing a chemical equation using the names of reactants and products instead of chemical formulas



Examples:

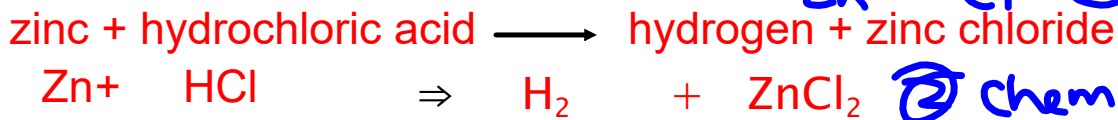
①

②

Write the word and chemical equation to represent the following:

reactants

a) when zinc metal reacts with hydrochloric acid, hydrogen gas and zinc chloride are formed. **products**



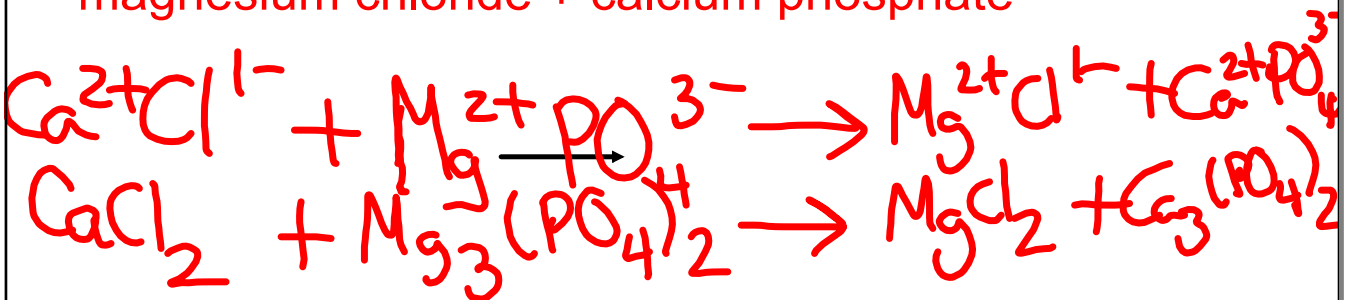
$\text{Zn} + \text{Cl}^-$ ① word eqn
 ② chemical eqn

reactants.

b) when dissolved calcium chloride reacts with dissolved magnesium phosphate, magnesium chloride and calcium phosphate are made. **products**



① word eqn



Word Equations WS