

Oct 2, 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.



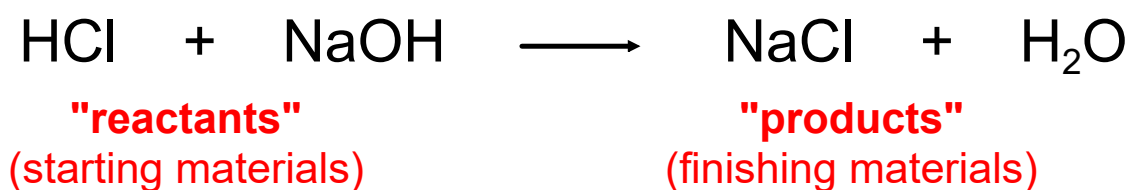
Chemical Reactions

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)

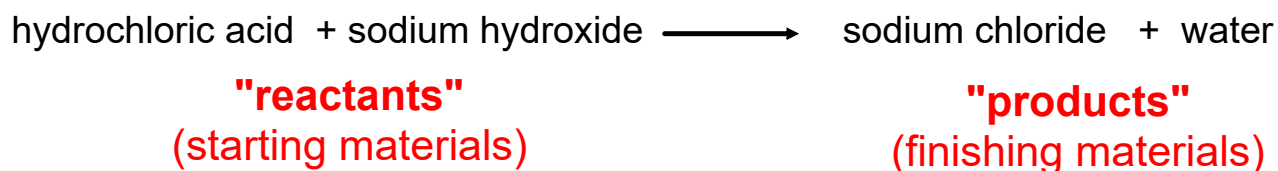
What is a chemical equation?

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



What is a word equation?

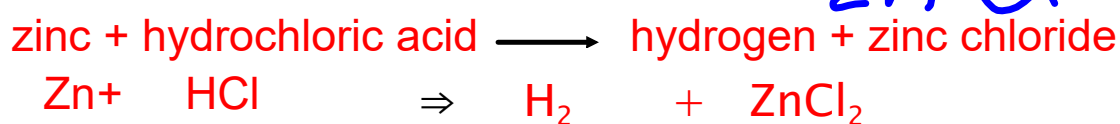
- one way of representing a chemical equation using the names of reactants and products instead of chemical formulas



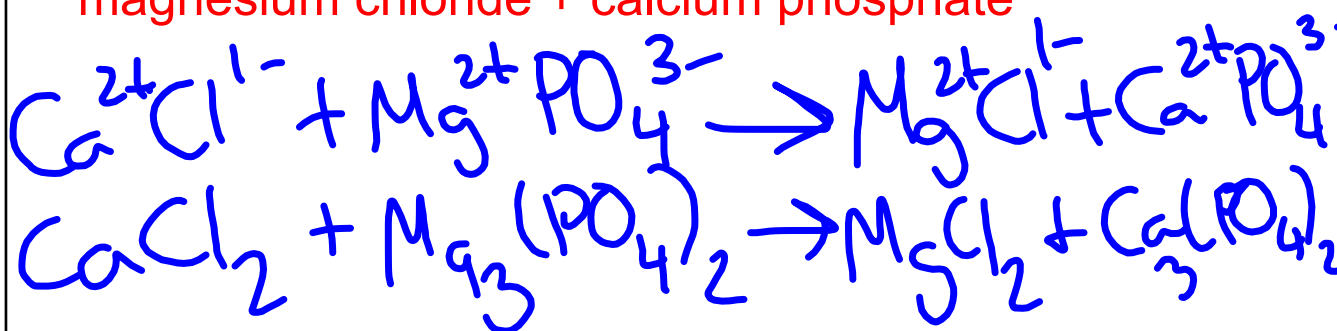
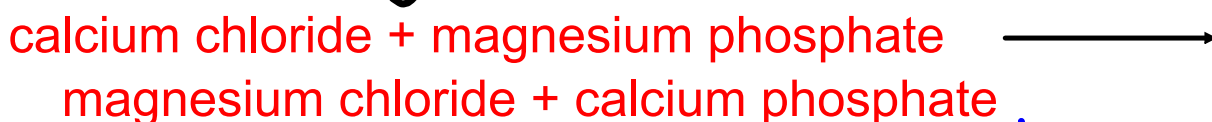
Examples:

Write the word and chemical equation to represent the following:

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



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



Word Equations WS