

Chapter 8 Study Guide
Test Thursday – March 21, 2013

Section Objectives

Key Terms/Ideas

8.1 Describing Chemical Reactions

List three observations that suggest that a chemical reaction has taken place.

Chemical equation
Precipitate

List three requirements for a correctly written chemical equation.

Coefficient

Write a word equation and a formula equation for a given reaction.

Word equation

Balance a formula equation with an atom count

Formula equation

Identify the symbols for gas, liquid/aqueous & gas for a formula

Reversible reaction

8.2 Types of Chemical Reactions

Define and give general equations for *synthesis*, *decomposition*, *single-replacement*, and *double-replacement* reactions.

Synthesis (composition)
reaction

Classify a reaction as synthesis, decomposition, single-replacement, double-replacement, or combustion.

Decomposition reaction

Acid-Base reaction

Be able to predict the products for Combustion, Acid Base, Single replacement & Double replacement reactions

Single-replacement

Double-replacement reaction

Combustion reaction

8.3 Activity Series of the Elements

Explain the significance of an activity series.

Activity series

Use an activity series to predict whether a given reaction will occur and what the products will be.

Review Assignment Pg 269-271

#1, 3, 8, 10, 11, 15, 16, 20, 22, 27-29, 34 & 36

Also Review