

CHAPTER 5 LEARNING OBJECTIVES

1. Predict the products and write balanced equations for acid/base reactions and precipitation reactions (using solubility rules).
2. Explain the difference between molecular, ionic, and net ionic equations and write the net ionic equation from a given molecular equation.
3. Provide the names and formulas for the acids and bases listed in the general chemistry pro-knowledge sheet.
4. Determine the oxidation numbers of all of the elements in an equation.
5. Identify the compounds being oxidized and reduced and the oxidizing and reducing agents.
6. Predict the products of a displacement reaction from an activity series.
7. Calculate the molarity, solution volume, or number of moles of solute.
8. Explain the concept of titration and perform calculations using titration data.

Review the “In Closing” and “Key Terms” sections of Chapter 5 (pages 203-204).