

CHAPTER 7



Chemical Formulas and Chemical Compounds 218

1 Chemical Names and Formulas	219
2 Oxidation Numbers	232
3 Using Chemical Formulas	237
4 Determining Chemical Formulas	245
Careers in Chemistry Pharmacist	222
Chemistry in Action	
Mass Spectrometry: Identifying Molecules	236
Math Tutor Calculating Percentage Composition	256
Standardized Test Prep	257
Experiment Determining the Empirical Formula of Magnesium Oxide	258

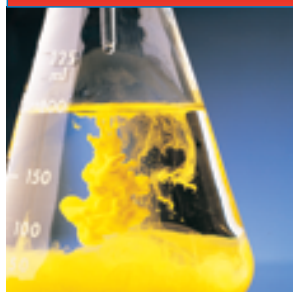
CHAPTER 8



Chemical Equations and Reactions 260

1 Describing Chemical Reactions	261
2 Types of Chemical Reactions	276
3 Activity Series of the Elements	285
Chemistry in Action Carbon Monoxide Catalyst	275
Chemistry in Action Fluoridation and Tooth Decay	283
Quick Lab Balancing Equations Using Models	284
Chemistry in Action Combustion Synthesis	288
Math Tutor Balancing Chemical Equations	294
Standardized Test Prep	295
Experiment Blueprint Paper	296

CHAPTER 9



Stoichiometry 298

1 Introduction to Stoichiometry	299
2 Ideal Stoichiometric Calculations	304
3 Limiting Reactants and Percentage Yield	312
Careers in Chemistry Chemical Technician	300
Historical Chemistry The Case of Combustion	302
Quick Lab Limiting Reactants in a Recipe	316
Math Tutor Using Mole Ratios	324
Standardized Test Prep	325
Experiment Stoichiometry and Gravimetric Analysis	326