

CHEM 111 Study Guide for Exam 4: Chapters 7–9

Chapter 7: Chemical reactions and chemical quantities

1. Know how to do gram / mole conversions.
2. Know the relationships between moles and chemical equations, and how to do calculations based on a balanced equation
3. Know the relationships between mass and chemical equations, and how to do calculations based on a balanced equation
4. Be able to figure out limiting reagent and be able to calculate theoretical yield and percent yield.

Chapter 8: Introduction to Solutions and Aqueous Reactions

1. Understand molarity as a concentration and be able to use it in calculations.
2. Be able to do dilution stoichiometry.
3. Know the difference among strong electrolytes, weak electrolytes and nonelectrolytes.
4. Be able to do solution stoichiometry in a given chemical reaction.
5. Be able to write molecular equations, complete ionic equations and net ionic equations.
6. Be able to assign oxidation numbers (states) for a given chemical formula.
7. Be able to recognize redox reactions, and identify oxidation reaction, reduction reaction, oxidizing agent and reducing agent.

Chapter 9: Thermochemistry

1. Know the difference of kinetic energy and potential energy.
2. Understand endothermic reactions and exothermic reactions.
3. Be able to write equations for standard enthalpy of formation (ΔH_f°).
4. Be able to use Hess's law.
5. Be able to use bond energies to calculate ΔH for a chemical reaction.
6. Be able to use given ΔH_f° to calculate $\Delta H_{\text{rxn}}^\circ$
7. Be able to calculate heat (q) using specific heat: $q = c.m. \Delta T$

Chemistry 111 Study Guide

Joshua Romine Morton



Chemistry 111 Study Guide:

Chemistry 111 Laboratory Manual & Study Guide ,2025-01-02 *Hazmat Chemistry Study Guide (Second Edition)* Jill Meryl Levy,2011 **Basic Concepts of Chemistry, Study Guide** Leo J. Malone,2000 The text s three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry Designed to help readers master the principles of general chemistry As a prep book it promotes active involvement with the material There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills Updated to Include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems Resources in Education ,1995-10 **Journal of Chemical Education** ,1928
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