

Chemistry 100 Final Study Guide

- **Chapter 1: Introduction**

- a. Physical vs. Chemical properties
 - 1) List 2 physical and 1 chemical property of magnesium.
- b. Units of measurement
 - 1) Can you distinguish between metric and U.S. units of measurement?
 - 2) What is 0.000000568 in scientific notation? What is 4.63×10^7 in regular notation?
- c. Density
 - 1) What is the density of a 37g block of metal that takes up 15mL of volume?

- **Chapter 3: Atomic Structure**

- a. Historical Perspective
 - 1) List the major scientific accomplishments of the following scientists:
 - (i) Michael Faraday
 - (ii) Joseph Thomson
 - (iii) Robert Millikan
 - (iv) Ernest Rutherford
 - (v) Neils Bohr
 - (vi) Erwin Schrodinger
- b. Isotopes
 - 1) Define an isotope and give an example of several isotopes for hydrogen.
- c. Structure of the atom
 - 1) Name the 3 main parts of an atom, and indicate where in the atom they'd be found.
 - 2) For the element sodium: how many energy levels? How many sublevels? What orbitals? How many electrons?
 - 3) Write the full electron configuration of silicon.
- d. Electron configurations and trends on the Periodic Table
 - 1) Locate each of the following on the Periodic Table: alkali metals, alkaline earth metals, transition metals, halogens, noble gases, metals, non-metals.

- **Chapter 5: Chemical bonds**

- a. Electron-dot structures
 - 1) Draw the electron-dot structure of an oxygen atom.
- b. Octet Rule and Ions
 - 1) What charge of ions do magnesium, chlorine and nitrogen form?
- c. Ionic compounds
 - 1) Name the following compounds: AlBr_3 , CaS , Na_3N
- d. Covalent compounds
 - 1) Name the following compounds: SO_2 , PCl_3 , CH_4
- e. Polyatomic molecules
 - 1) Name and write the formula for the 6 -ate polyatomic molecules we discussed.
- f. Electron-dot formulas for molecules
 - 1) Write the electron-dot formula for each of the 6 -ate polyatomic ions we discussed.
- g. VSEPR Model and Molecular shape
 - 1) Draw the electron-dot formula of ammonia (NH_3) and state its VSEPR shape.
- h. Molecule polarity
 - 1) Which of the VSEPR molecule shapes are polar and which are non-polar?

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Table of Contents Lab Chem Study Guide 2015 Final Exam

1. Understanding the eBook Lab Chem Study Guide 2015 Final Exam
 - The Rise of Digital Reading Lab Chem Study Guide 2015 Final Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Chem Study Guide 2015 Final Exam
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Chem Study Guide 2015 Final Exam
 - User-Friendly Interface

4. Exploring eBook Recommendations from Lab Chem Study Guide 2015 Final Exam
 - Personalized Recommendations
 - Lab Chem Study Guide 2015 Final Exam User Reviews and Ratings
 - Lab Chem Study Guide 2015 Final Exam and Bestseller Lists
5. Accessing Lab Chem Study Guide 2015 Final Exam Free and Paid eBooks
 - Lab Chem Study Guide 2015 Final Exam Public Domain eBooks
 - Lab Chem Study Guide 2015 Final Exam eBook Subscription Services
 - Lab Chem Study Guide 2015 Final Exam Budget-Friendly Options
6. Navigating Lab Chem Study Guide 2015 Final Exam eBook Formats
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 - Lab Chem Study Guide 2015 Final Exam Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Chem Study Guide 2015 Final Exam
 - Highlighting and Note-Taking Lab Chem Study Guide 2015 Final Exam
 - Interactive Elements Lab Chem Study Guide 2015 Final Exam
8. Staying Engaged with Lab Chem Study Guide 2015 Final Exam
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Chem Study Guide 2015 Final Exam
9. Balancing eBooks and Physical Books Lab Chem Study Guide 2015 Final Exam
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Chem Study Guide 2015 Final Exam
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Chem Study Guide 2015 Final Exam
 - Setting Reading Goals Lab Chem Study Guide 2015 Final Exam
 - Carving Out Dedicated Reading Time

-
12. Sourcing Reliable Information of Lab Chem Study Guide 2015 Final Exam
 - Fact-Checking eBook Content of Lab Chem Study Guide 2015 Final Exam
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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