

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?

Chemistry Final Study Guide Sheet

JE Gale



Chemistry Final Study Guide Sheet:

The Only Study Guide You'll Ever Need Jade Bowler, 2021-08-05 We've all been there a new school year starts and there's 8 months till your exams that's plenty of time right Then there's 6 months 3 months 1 month and oh now there's 2 weeks left and you haven't started studying What happens next is a panic induced mayhem of highlighting everything in the textbook without even questioning if it's actually helpful But I'm here to help you change this In The Only Study Guide You'll Ever Need I'll cover a range of different topics including How to get started and pick up that pen Learning techniques that actually work hello science of memory The dos and don'ts of timetabling And combatting fear of failure perfectionism exam stress and so much more As a fellow student now at university I definitely don't have a PhD in Exam Etiquette but this is the book younger me needed All I wanted was one place that had a variety of tried and tested methods with reassurance from someone who had recently been through the education system The Only Study Guide You'll Ever Need is just that and I have collected the best techniques and tools I wish I'd known earlier to help you get through your studies and smash your exams Jade x

General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and questions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 question practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material **Vocational Division Bulletin**, 1961 **MCAT General Chemistry Review 2026-2027**

Kaplan Test Prep, 2025-07-08 Kaplan's MCAT General Chemistry Review 2026-2027 offers an expert study plan detailed subject review and hundreds of online and in book practice questions all authored by the experts behind Kaplan's score raising MCAT prep course Prepping for the MCAT is a true challenge Kaplan can be your partner along the way offering guidance on where to focus your efforts and how to organize your review This book has been updated to match the AAMC's guidelines precisely no more worrying about whether your MCAT review is comprehensive The Most Practice More than 350 questions in the book and access to even more online more practice than any other MCAT general chemistry book on the market The Best Practice Comprehensive general chemistry subject review is written by top rated award winning Kaplan instructors Full color 3D illustrations charts graphs and diagrams help turn even the most complex science into easy to visualize concepts All material is vetted by editors with advanced science degrees and by a medical doctor Online resources including a full length practice test help you practice in the same computer based format you'll see on Test Day Expert Guidance High yield badges throughout the book identify the topics most frequently tested by the AAMC We know the test The Kaplan MCAT team has spent years studying every MCAT related document available Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test *MCAT General Chemistry Review 2024-2025*

Kaplan Test Prep,2023-07-04 Kaplan's MCAT General Chemistry Review 2024 2025 offers an expert study plan detailed subject review and hundreds of online and in book practice questions all authored by the experts behind the MCAT prep course that has helped more people get into medical school than all other major courses combined

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Vocational Division Bulletin United States. Division of Vocational Education,1939 **Curriculum Materials for Trade and Industrial Education** ,1961

Summaries of Studies in Agricultural Education American Vocational Association. Agricultural Education Section,1961

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