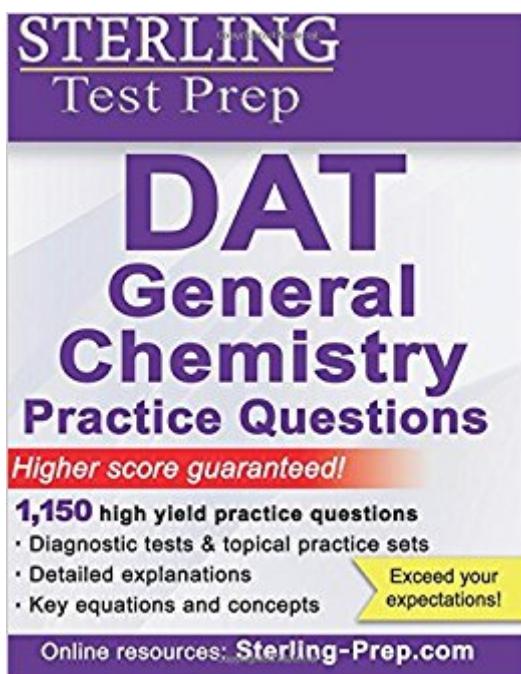


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# Sterling DAT General Chemistry Practice Questions: High Yield DAT General Chemistry Questions



## Synopsis

DAT Gen Chem best seller! A NEW edition with complete explanations! 1,150 A general chemistry practice questions with detailed explanations covering all topics tested on the General Chemistry section of DAT : A A A Electronic and atomic structure of matter A A A Periodic table A A A Chemical bonding A A A States of matter: gases, liquids, solids A A A Solution chemistry A A A Acids and bases A A A Stoichiometry A A A Equilibrium and reaction rates A A A Thermochemistry A A A Electrochemistry

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Scoring well on the General Chemistry portion of the DAT is important for admission into dental school. A To achieve a high score, you need to develop skills to properly apply the knowledge you have and quickly choose the correct answer. A You must solve numerous practice questions that represent the style and content of the DAT questions. A Understanding key science concepts is more valuable than memorizing terms. A This book provides over 1,150 chemistry practice questions that test your knowledge of all DAT General Chemistry topics. A At the back of the book, you will find answer keys (use them to verify your answers) and explanations to questions. A A A These explanations provide step-by-step solutions for quantitative questions and detailed explanations for conceptual questions. A A A This book covers the foundations of general chemistry topics needed to answer related questions on the test. A By reading these explanations carefully and understanding how they apply to solving the question, you will learn

important chemistry concepts and the relationships between them. This will prepare you for the test and you will significantly increase your score. All the questions are prepared by our science editors who possess extensive credentials and are educated in top colleges and universities. Our editors are experts on teaching sciences, preparing students for standardized science tests and have coached thousands of undergraduate and graduate school applicants on admission strategies. Used books may have outdated content. We make content updates regularly based on customers' comments, editorial input and latest test changes. The most current version is only available directly from (sold & shipped by ), Barnes & Noble and Sterling Test Prep web store.

Electronic and Atomic Structure of Matter; Periodic Table Atomic theory and atomic mass; atomic number and mass number Representative elements, transition elements Electron energy levels: atomic spectra, quantum numbers, atomic orbitals Periodic relationships and trends (atomic radii, ionization energies, electron affinities, oxidation states) Bonding Bonding properties and structures Ionic, covalent, metallic bonds Polarity of bonds, electronegativities Molecular geometry Intermolecular forces (hydrogen bonding, dipole-dipole, London dispersion forces) Molecular models: valence bond theory, hybridization of orbitals, resonance, sigma and pi bonds States of Matter: Gases, Liquids, Solids Dalton's, Boyle's and Charles' laws; ideal gas law Kinetic molecular theory of gases Molar volumes, density Types of solids, phase changes, phase diagrams Changes of state, critical phenomena, crystal structure Intermolecular forces Solution Chemistry Solution preparation, types of solutions, stoichiometry Molarity and percent by mass concentrations Solubility of solids, liquids and gases Precipitation and solubility rules Colligative properties; interionic attraction Acids and Bases Strong and weak acids and bases Brønsted-Lowry theory pH, titrations, indicators Oxidation-reduction reactions Stoichiometry Molar mass, Avogadro's number Empirical and molecular formulas Ionic and

molecular species present in chemical systems; net-ionic equations  
Balancing of chemical equations  
Stoichiometric calculations, percent yield, limiting reactants  
Equilibrium and Reaction Rates  
Equilibrium systems  
LeCh<sup>â</sup>telier's principle and position of equilibrium  
Equilibrium constants, equilibrium expressions  
Factors affecting reaction rates; rate constant; rate-determining step  
Potential energy, activation energy  
Thermodynamics and Thermochemistry  
First law: heat of formation; heat of reaction; change in enthalpy, Hess's law; heat capacity; heats of vaporization and fusion  
Second law: free energy of formation; free energy of reaction; dependence of change in free energy on enthalpy and entropy changes  
Hess law; spontaneity  
Chemical reactions, heating and cooling curves, entropy  
Electrochemistry  
Galvanic and electrolytic cells  
Redox reactions (including half-reactions) within electrochemical cells  
Standard reduction potentials, oxidation number  
Answer Keys & Explanations

I focused my DAT prep on practicing questions and this book has a lot of general chemistry questions that cover all topics tested on the DAT. I think the questions are good quality and cover a variety of important concepts. I highly recommend to do your concepts review and use this book to practice solving the problems. This way you will acquire/perfect your ability to apply your knowledge of the material.

The book is well written and the amount of material is great. I used the book to identify my strengths and weaknesses. I am much more familiar with the concepts and have increased my confidence. The volume of practice material is what my studying was missing. My friend took the DAT and he recommended the book. I'm glad that I took his advice and bought the book.

The questions were well written, I liked that the chapters allowed me to practice discrete topics covered on the DAT. I asked my chem instructor to review the book for me and he said the material looked solid. I spent the time to practice all the questions and I am really happy that I did. I feel much more prepared for the chem section of the DAT.

Not only does this book have questions dealing with calculations, it contains questions testing the concepts, which the recent DAT tests quite heavily. I think this book will be a good addition to the questions to solve after watching Chad Áf Á ñ Á s videos in addition to the online quizzes on coursesaver.com.

I took the DAT recently and got my results. I am very happy with my scores, and science in particular. I used these gen chem practice questions to focus my studying. I had been reviewing the content for the DAT and needed to take practice questions to flush out my understanding for strengths and weaknesses. Very valuable material here (along with their Biology/biochemistry book). Highly recommend these practice questions to be sure that you are ready for the types of questions on the DAT. The explanations helped me reinforce and distinguish between similar choices. These also helped for those questions that I had not been exposed to from my preparation of the topics.

The chemistry questions were very helpful for me to prepare for the DAT. I am glad that I used this book to prep for the exam. I told several of my friends about this book and suggested they use it to get ready for test day.

I really think this book helped me prepare for the chemistry section of the DAT. I used the questions to focus on my weaknesses. Very valuable preparation for the DAT. I took my roommate's advice about this book and happy with the results.

Questions in the book are very similar to the DAT. Excellent practice to get ready for test day. Explanations really helped me review the fundamentals and add to my understanding of the material. Great book for the edge on the DAT. Questions and explanations prepared me for the test. Many questions I reviewed here were those that I didn't even know would be helpful on the actual test - glad I bought this book and worked the problems.

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