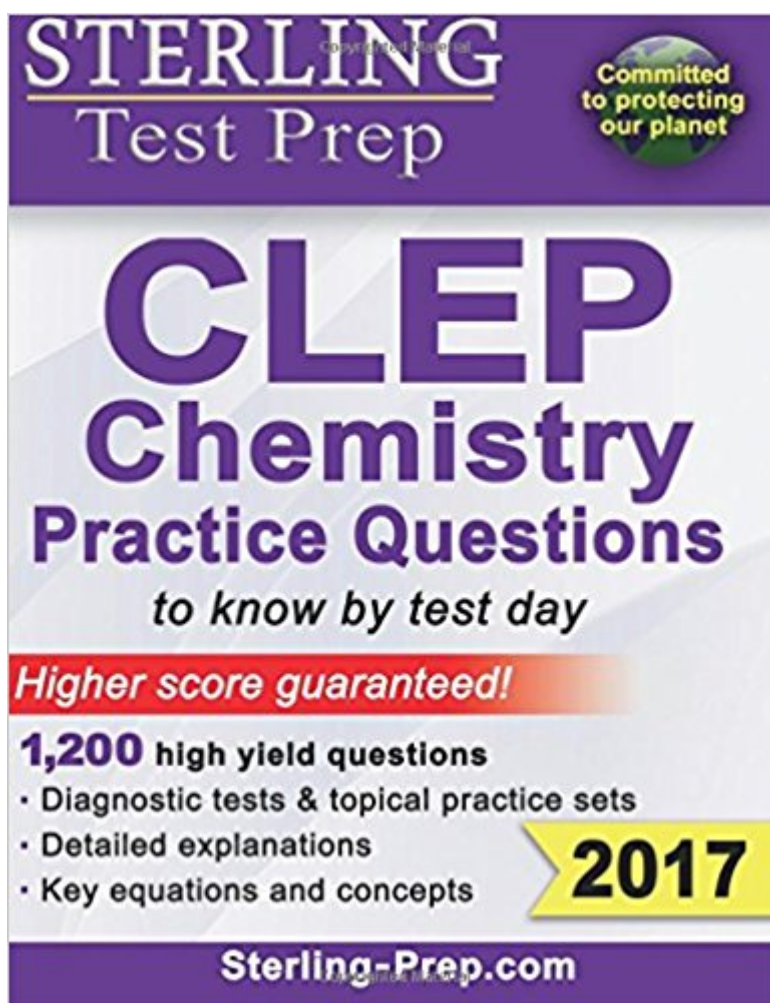




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Synopsis

CLEP Chemistry bestseller! A NEW edition with complete explanations! 1,200 chemistry practice questions with detailed explanations. All questions are multiple 5-choice questions - like the actual test - and cover all topics tested on CLEP Chemistry: Electronic and atomic structure of matter Periodic table Chemical bonding States of matter: gases, liquids, solids Solution chemistry Acids and bases Stoichiometry Equilibrium and reaction rates Thermochemistry Electrochemistry

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Scoring well on College-Level Examination Program (CLEP) Chemistry is important for your ability to bypass taking the class and earn college credit. To achieve a high score, you need to develop skills to properly apply the knowledge you have and quickly choose the correct answer. You must solve numerous practice questions that represent the style and content of the CLEP questions. Understanding key science concepts is more valuable than memorizing terms. This book provides over 1,200 chemistry practice questions that test your knowledge of all CLEP Chemistry topics. At the back of the book, you will find answer keys (use them to verify your answers) and explanations to questions. These explanations provide step-by-step solutions for quantitative questions and detailed explanations for conceptual questions. They also cover the foundations of general chemistry topics needed to answer related questions on the test. 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 Used books may have outdated content.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; isotopes and mass spectroscopy Electron energy levels: atomic spectra, quantum numbers, atomic orbitals Periodic relationships (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 Laws of ideal gases; equations of state for an ideal gas Kinetic molecular theory 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 Concepts of Arrhenius and Lewis 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 Le Châtelier's principle and position of equilibrium Equilibrium constants, equilibrium expressions Factors affecting reaction rates; rate constant; rate-determining step Potential energy, activation energy Thermodynamics First law: heat of formation; heat of reaction; change

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
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Electrochemistry
Galvanic and electrolytic cells
Redox reactions (including half-reactions) within electrochemical cells
Standard reduction potentials, oxidation number
Answer Keys & Explanations

These chemistry practice problems were an integral part of my studying. It was only when I practiced with problems did I reinforce what I was learning. I like the many examples for each concept. Practice allowed me to become much stronger in chemistry. The questions in this book were a great review of the important concepts. Would recommend this book.

I used this chemistry book and the CLEP biology book from STP. My friend used both and she recommended them to me. Both are excellent prep for the CLEP exam. Loaded with great content and solutions have many valuable pointers on how to solve problems and the book provides great information to prepare for CLEP. Highly recommend these books. My scores were great and I needed to prepare so I would be sure to do well on test day, it worked.

I needed the practice contained within the book. The questions challenged me to be sure that I actually knew the material. An excellent source of practice questions. I was very prepared for the exam. Recommend it.

I got the score I needed for the CLEP chemistry exam. This book was great for me to use to prep for the exam. A few friends used this and other books. I found this the most helpful and the results were great. Recommend this book to study for the CLEP chemistry exam. The explanations helped me understand the material. I like that the questions in the book are separated by topics and each topic has a separate chapter. I was able to save time by focusing on what topics I needed to practice.

Very happy with the questions. Good selection of questions and a variety of difficulty level. Practicing the questions helped me master the material. Took my learning from theory to application. It was a great simulation for the actual test.

I enjoyed studying for the CLEP chemistry exam with this book. Great source of questions and

detailed, step-by-step explanations that got me ready for testday. This book is expanded and more detailed than my friends so I decided to get the updated version. Many more explanations which is definitely worth the money. I was relaxed during the exam because I know that I was ready from the questions I practiced.

great chemistry practice questions that prepared me for the exam. Similar to my experience on the test. Spend time with the explanations as this is what separates this book from others that I previewed.

Great prep material for the CLEP chemistry exam. I took several CLEP exams and Sterling Prep had the best practice material. I was prepared for the chemistry and scored well. Great book and recommend it over some other CLEP products out there.

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