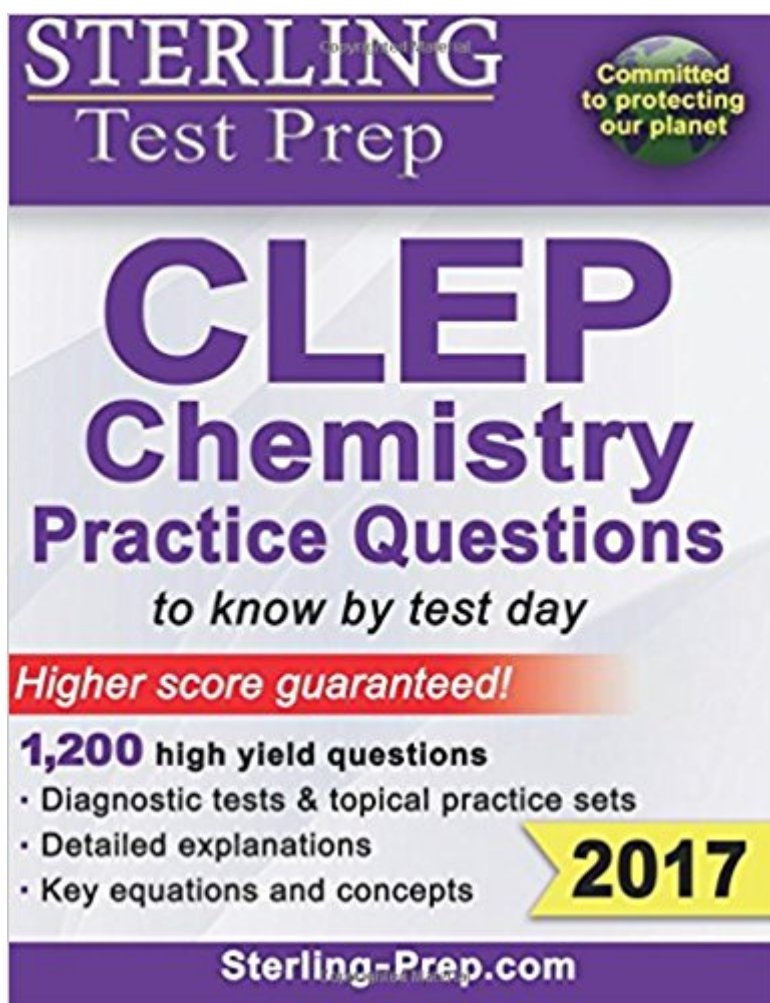


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Scoring well on College-Level Examination Program (CLEP) Chemistry is important for your ability to bypass taking the class and earn college credit. To achieve a high score, you need to develop skills to properly apply the knowledge you have and quickly 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

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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 Chatelier'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 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
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

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

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