



NYSTCE Chemistry (007) Test Secrets Study Guide: NYSTCE Exam Review for the New York State Teacher Certification Examinations

NYSTCE Exam Secrets Test Prep Team

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*****Includes Practice Test Questions***** Get the test prep help you need to be successful on the **NYSTCE Chemistry test**. The NYSTCE Chemistry (007) Test is extremely challenging and thorough test preparation is essential for success. *NYSTCE Chemistry (007) Test Secrets Study Guide* is the ideal prep solution for anyone who wants to pass the NYSTCE Chemistry Test. Not only does it provide a comprehensive guide to the NYSTCE Chemistry Test as a whole, it also provides practice test questions as well as detailed explanations of each answer. *NYSTCE Chemistry (007) Test Secrets Study Guide* includes:

- A detailed overview of the NYSTCE Chemistry (007) Test
- A guide to foundations of scientific inquiry
- An analysis of matter and atomic structure
- A breakdown of energy, chemical bonds, and molecular structure
- An in-depth look at chemical reactions
- A full study of stoichiometry and solutions
- An extensive review of interactions of chemistry and the environment
- Comprehensive practice questions with detailed answer explanations

It's filled with the critical information you'll need in order to do well on the test: the concepts, procedures, principles, and vocabulary that the New York State Education Department (NYSED) expects you to have mastered before sitting for the exam. **The Foundations of Scientific Inquiry section covers:**

- Processes involved in scientific inquiry / experimental design
- Nature of scientific knowledge / historical developments
- Data, measurement, and analysis
- Laboratory and safety

The Matter and Atomic Structure section covers:

- Organization of matter
- Particulate structure of matter
- Chemical/physical properties/changes
- Conservation of energy and matter
- Phase transitions
- Kinetic molecular theory and ideal gas laws
- Current model of atomic structure / electron configuration
- Radioactivity
- Electronic absorption and emission spectra
- Periodic table and trends

The Energy, Chemical Bonds, and Molecular Structure section covers:

- Forms of energy
- Temperature and thermal energy

- Energetics of chemical reactions / laws of thermodynamics
- Naming simple inorganic compounds
- Naming common organic compounds
- Bonding and structure
- Important biochemical compounds
- Common organic compounds

The Chemical Reactions section covers:

- Chemical kinetics
- Chemical reaction equilibrium
- Oxidation-reduction reactions
- Properties of acids and bases
- pH scale
- Acid-base titrations
- Equilibrium relationships in acid-base chemistry

The Stoichiometry and Solutions section covers:

- Mole concept
- Balancing chemical equations and stoichiometry
- Solutions and solubility
- Equilibrium in ionic solutions

The Interactions of Chemistry and the Environment section covers:

- Science, technology, society, and the environment

These sections are full of specific and detailed information that will be key to passing the NYSTCE Chemistry Test. Concepts and principles aren't simply named or described in passing, but are explained in detail. The guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it. Because it's written with an eye for both technical accuracy and accessibility, you will not have to worry about getting lost in dense academic language.

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