



FTCE Chemistry 6-12 Secrets Study Guide: FTCE Test Review for the Florida Teacher Certification Examinations

FTCE 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 FTCE Chemistry 6-12 test.** The FTCE Chemistry 6-12 is extremely challenging and thorough test preparation is essential for success. *FTCE Chemistry 6-12 Secrets Study Guide* is the ideal prep solution for anyone who wants to pass the FTCE Chemistry 6-12 Exam. Not only does it provide a comprehensive guide to the FTCE Chemistry 6-12 Exam as a whole, it also provides practice test questions as well as detailed explanations of each answer. *FTCE Chemistry 6-12 Secrets Study Guide* includes:

- A thorough overview of the FTCE Chemistry 6-12
- An in-depth look at appropriate laboratory use and procedures
- A full study of atomic theory and structure
- An examination of bonding and molecular structure
- A detailed overview of chemical reactions and stoichiometry
- An analysis of energy and its interaction with matter
- A breakdown of measurement
- An extensive review of the nature of matter
- A guide to the nature of science
- 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 Florida Department of Education (FDOE) expects you to have mastered before sitting for the exam. **The Appropriate Laboratory Use and Procedures section covers:**

- Laboratory and safety

The Atomic Theory and Structure section covers:

- Current model of atomic structure / electron configuration
- Radioactivity
- Electronic absorption and emission spectra
- Periodic table and trends

The Bonding and Molecular Structure section covers:

- Naming simple inorganic compounds
- Naming common organic compounds
- Bonding and structure
- Important biochemical compounds
- Common organic compounds

The Chemical Reactions and Stoichiometry section covers:

- Mole concept
- Balancing chemical equations and stoichiometry
- Chemical kinetics

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

The Energy and its Interaction with Matter section covers:

- Conservation of energy and matter
- Forms of energy
- Temperature and thermal energy
- Phase transitions
- Kinetic molecular theory and ideal gas laws
- Energetics of chemical reactions / laws of thermodynamics

The Measurement section covers:

- Data, measurement, and analysis

The Nature of Matter section covers:

- Organization of matter
- Particulate structure of matter
- Chemical/physical properties/changes

The Nature of Science section covers:

- Processes involved in scientific inquiry / experimental design
- Nature of scientific knowledge / historical developments
- Science, technology, society, and the environment

These sections are full of specific and detailed information that will be key to passing the FTCE Chemistry 6-12 Exam. 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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