



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

By 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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## **Editorial Review**

Review

### **A NYSTCE Study Guide Unlike Any Other**

If you'd like to get the NYSTCE score you deserve, to quit worrying about whether your score on the NYSTCE is "good enough," and to beat the test taking game, then this might be the most important message you read this year.

Our comprehensive study guide for the NYSTCE is written by our NYSTCE experts, who painstakingly researched the topics and the concepts that you need to know to do your best on the NYSTCE. Our original research into the New York State Teacher Certification Examinations (NYSTCE), offered by the New York State Education Department (NYSED) and National Evaluation Systems (NES), reveals the specific content areas and the essential skills that are critical for you to know on the NYSTCE. We've taken the information and developed a study guide that is guaranteed to help you be successful on the NYSTCE.

Regardless of which NYSTCE test you have to take- you have come to the right place. Here you will find everything you need to know in order to be successful and get your certification.

Now, we know you may be skeptical, so let us give you three good reasons we can back up what we claim:

### **The Three Reasons To Believe What We Say**

#### **The First Reason:**

Our company's name is Mometrix Test Preparation, and we have a team of standardized test researchers who have worked on developing our study guide for the NYSTCE. The standards for who gets to work on the team are very strict- we demand the best for our customers, and only those who met our exacting standards made the cut. The dedicated research staff have years of combined experience in mastering the content and skills necessary to succeed on the toughest exams.

#### **The Second Reason:**

Some academic studies have revealed that test takers do not really benefit from the traditional test preparation process. But we knew there had to be a solution- if test takers were not doing well on the NYSTCE despite high intelligence, there had to be a set of secret keys to the test that would open the door of success for these test takers.

We believe we have succeeded in finding the secret keys of the exam. What we found was surprising, and in some cases **ridiculously simple** once explained to the average test taker.

We put the findings together in a thorough, concise study guide that we believe allows any test taker, at any skill level, to **improve his or her results dramatically** with a *minimum of effort*.

#### **The Third Reason:**

We created the product in part because we were frustrated by the options available to test takers who really wanted to do well on the NYSTCE.

A common approach is to TEACH the material, instead of TEACHING THE TEST. That's not necessarily good enough for the NYSTCE- you have to know how to apply the knowledge. Most test takers already have a general knowledge of the material that will be covered on the exam.

One reason some test takers do well on the day of the test is that they have made the critical connection between the material they learned and how to use the material to succeed on the NYSTCE.

Our guide addresses the difference between merely knowing the material and knowing how to use the material to **perform on test day**.

You're going to save time, money, and aggravation. You'll learn to avoid the mistakes and the bad strategies that you've been vulnerable to. --Just for starters, here are some ways our product can help your score on the NYSTCE...

### **The Exclusive Test Taking Techniques**

- Explains how the NYSTCE time limits are the #1 enemy of most test takers, and what you can do about it- You avoid falling into the many "time traps" built into the test, giving you an immeasurable advantage over those who go into the test unaware
- Shows you super speed methods to get through the questions you know with ease- Saving you time so you concentrate on the hardest questions without rushing
- Get quick, customized help for the questions you have- just send us a quick email and we'll get back to you promptly with the answer.
- Keys to questions that "give away" the wrong (or right) answers- You get credit for some of the questions without really even knowing anything about them
- Details the EXACT STUDY PLAN for the NYSTCE that we believe gives the most results in the least time- No matter if you're studying for a week or a month, you won't waste the precious study time you have on useless activities
- Our researchers are more than just academic theoreticians who understand the technical nature of standardized tests, but are also experts on test taking itself- they reveal the exact skills and the information you'll need to perform under pressure during the test.
- A systematic analysis and the best breakdown into "plain language" of how to deconstruct and master complex problems- You turn the problems that most of the test takers will stumble over to your advantage
- Learn why, when, and how to guess to your advantage. Many test takers use exactly the wrong strategy, but you can avoid the pitfalls with the help of our standardized test experts
- The secret keys that "gives away" the right answer a lot of the time- You know the special "flags" and the specific "giveaways" to look for
- Includes instructions detailing the best way for you to get started with your preparation efforts so you can begin the path of improving your scores immediately
- The most efficient and accurate method for picking the right answer- You won't be scratching your head trying to read the mind of the test question writer, but will instead know exactly what to look for to pick the best answer
- Our quick problem solving method for difficult problems- You speed right through these notorious time-wasters
- Courteous, unlimited customer service is 100% free- if you need the product emailed to a different address, lose the product, or have any other difficulty- the help you need is just a short email away and our

representatives are active 7 days a week helping customers

- The research of our team of test experts is 100% independent and original
- Our exclusive "calibration strategy" to help you never go too fast OR too slow when answering even the toughest questions
- The 5-step process we've developed, what we call the "phased" approach, concerning the use of the various study aids and practice tests
- How the problem of procrastination can kill your chance of success, and the most important thing you can do about it
- How to know when you've studied as much as you need to for the exam- and the reason why we think some people should spend LESS time studying for the test
- The Top 20 things you should take care of within 24 hours of taking the test- use the list we provide as a checklist to make sure you've taken care of the "little things" in addition to studying hard
- How to predict the right answer before you see the answer choices- and how to prevent the wrong answers from "polluting" your mind and tempting you into a trap designed by the test writers --
- Why answers that "sound" correct are often the very ones that are wrong- and how to tell the difference between the right answer and the many clever-sounding traps set for you by the test writers
- Do you know what a "hedge phrase" is? Learn why looking for the key "weasel words" in the question can help identify the correct answer
- Why "new information" in the answer choices almost always means that the answer choice is wrong- and the way to avoid this trick planted by the clever test writers
- Learn to avoid this time-draining mistake on the test - why the technical terms you don't know can be a major stumbling block and waste precious time, and the way that you can work around them
- The secret to using the contextual clues in the questions and the answer choices to make important distinctions between the right and the wrong answer choices
- The two situations where you should NOT check your answers thoroughly
- How to avoid careless mistakes by using the quick "double check" system. It will more than pay for itself relative to the time it will take you
- Test writers will often quote directly from the question in an answer- learn whether this is something you should trust or avoid
- Why "extreme statements" in the answer choices are dead giveaways for wrong answers- find out how to detect the subtle differences between reasonable answers and the answers that are almost always wrong
- Learn how to group your answer choices into "families" that often narrows down the pool of correct answers- this is a quick way to immediately eliminate one or two of the answer choices and increase your odds of getting the question right

Now, you're probably wondering how and why we can do all the things we claim.

Let us explain.

Before we go any further, let us clarify what **NYSTCE Secrets** is not. It is not a stale rehash of all of the things you have already learned in the past.

**NYSTCE Secrets** is our exclusive collection of the tips and the information that we have specially selected to give you the best results on the NYSTCE for the least time spent studying. It's written in everyday language and is easy to use.

We cover the **5 essential skills** necessary to do well on the NYSTCE, plus a **comprehensive review** covering your specific NYSTCE test.

**Don't take our word for it. Listen to what our customers say about other Mometrix test preparation products.**

I purchased the Secrets file, and I just wanted to let you know that I got a 99% on my test. I just want to thank you again, and hope you have continued success in your ventures. Sincerely, Paul L.

My name is Chris. I used the Secrets study guide for five days. The study guide made the test so easy to understand. Like you said this program is worth 100's of dollars. To me 1,000's!! THANKS, Chris G.

I just had to thank you guys for the test prep! I bought the guide as a last minute prep, I mean maybe 5 hours before the test. Like I said, I had ZERO preparation! I was nervous about the test let alone receiving the score I needed. I read the guide through only once before test time and needless to say, the only way I passed was thanks to your refresher!! Brian

Just dropping you a note to let you know that I am completely satisfied with the product. I had already taken the test once and landed in the 75 percentile of those taking it with me. I took the test a second time and used some of your tips and raised my score to the 97 percentile. Thanks for my much improved score. Denise W.

I heard about your website from a friend. I am enrolled in a review course, and in hindsight, I wish I wouldn't have taken my review course and instead spent a fraction of the money on your program. Thank you! Zac L.

**You get at least 10 times your money's worth!** --When you consider what's at stake with the exam, we believe the value of our study guide gives you at least ten times your money's worth.

## Users Review

### From reader reviews:

#### Peggy Hahne:

Playing with family in the park, coming to see the coastal world or hanging out with friends is thing that usually you will have done when you have spare time, in that case why you don't try factor that really opposite from that. One particular activity that make you not experiencing tired but still relaxing, trilling like on roller coaster you have been ride on and with addition info. Even you love NYSTCE Chemistry (007) Test Secrets Study Guide: NYSTCE Exam Review for the New York State Teacher Certification Examinations, you are able to enjoy both. It is great combination right, you still need to miss it? What kind of hang type is it? Oh come on its mind hangout men. What? Still don't get it, oh come on its known as reading friends.

#### David Lacey:

NYSTCE Chemistry (007) Test Secrets Study Guide: NYSTCE Exam Review for the New York State Teacher Certification Examinations can be one of your starter books that are good idea. We all recommend that straight away because this guide has good vocabulary which could increase your knowledge in terminology, easy to understand, bit entertaining but delivering the information. The author giving his/her effort to put every word into satisfaction arrangement in writing NYSTCE Chemistry (007) Test Secrets Study Guide: NYSTCE Exam Review for the New York State Teacher Certification Examinations although doesn't forget the main stage, giving the reader the hottest along with based confirm resource info that maybe you can be among it. This great information could drawn you into brand-new stage of crucial contemplating.

**Oscar Barr:**

You could spend your free time to study this book this e-book. This NYSTCE Chemistry (007) Test Secrets Study Guide: NYSTCE Exam Review for the New York State Teacher Certification Examinations is simple to bring you can read it in the park, in the beach, train and soon. If you did not get much space to bring typically the printed book, you can buy the e-book. It is make you simpler to read it. You can save the particular book in your smart phone. Consequently there are a lot of benefits that you will get when one buys this book.

**Dean Herbert:**

Is it you who having spare time and then spend it whole day simply by watching television programs or just laying on the bed? Do you need something new? This NYSTCE Chemistry (007) Test Secrets Study Guide: NYSTCE Exam Review for the New York State Teacher Certification Examinations can be the solution, oh how comes? It's a book you know. You are thus out of date, spending your time by reading in this completely new era is common not a nerd activity. So what these textbooks have than the others?

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