



# **NYSTCE Mathematics (004) 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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# NYSTCE Mathematics (004) Test Secrets Study Guide: NYSTCE Exam Review for the New York State Teacher Certification Examinations

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**\*\*\*Includes Practice Test Questions\*\*\* Get the test prep help you need to be successful on the NYSTCE Mathematics test.** The NYSTCE Mathematics (004) Test is extremely challenging and thorough test preparation is essential for success. *NYSTCE Mathematics (004) Test Secrets Study Guide* is the ideal prep solution for anyone who wants to pass the NYSTCE Mathematics Test. Not only does it provide a comprehensive guide to the NYSTCE Mathematics Test as a whole, it also provides practice test questions as well as detailed explanations of each answer. *NYSTCE Mathematics (004) Test Secrets Study Guide* includes:

- A detailed overview of the NYSTCE Mathematics (004) Test
- An examination of number and quantity/algebra
- A guide to functions
- An analysis of calculus
- A breakdown of measurement and geometry
- An in-depth look at statistics and probability
- A full study of pedagogical content knowledge
- 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 Number and Quantity/Algebra section covers:**

- Multiplying and dividing signed numbers
- Properties of natural numbers
- Patterns of special products
- Inequalities
- Hyperbola
- Matrix

**The Functions section covers:**

- Functions
- Stretch, shrink, and reflection
- Monotone, even, and odd functions, and discontinuities
- Equal functions
- Law of Sines and the Law of Cosines
- Polar coordinate system

**The Calculus section covers:**

- When limit does not exist
- Implicit differentiation
- Critical point and sign diagram

- Properties of integrals
- Sequence of partial sums

**The Measurement and Geometry section covers:**

- Altitude, height, concurrent, and orthocenter
- Plane
- Acute, right, and obtuse
- Arc length and sector
- Area and perimeter of polygons
- Volume and total surface area of various 3-d shapes
- Geometric description of parabola

**The Statistics and Probability section covers:**

- Charts and tables
- Central tendency
- Inferential statistics and sampling distribution
- Permutations and combinations
- Odds in favor or against

**The Pedagogical Content Knowledge section covers:**

- Cognitive theorists and constructivists
- Cooperative learning
- Prior knowledge
- Assessment tool
- Formative and summative assessments

These sections are full of specific and detailed information that will be key to passing the NYSTCE Mathematics 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. Any test prep guide is only as good as its practice questions and answers, and that's another area where our guide stands out. Our test designers have provided scores of test questions that will prepare you for what to expect on the actual NYSTCE Mathematics Test. Each answer is explained in depth, in order to make the principles and reasoning behind it crystal clear.

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