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*****Includes Practice Test Questions*** Get the test prep help you need to be successful on the TExES Physics/Mathematics 7-12 test.** The TExES Physics/Mathematics 7-12 (243) Exam is extremely challenging and thorough test preparation is essential for success. ***TExES Physics/Mathematics 7-12 (243) Exam Secrets Study Guide*** is the ideal prep solution for anyone who wants to pass the TExES Physics/Mathematics 7-12 Exam. Not only does it provide a comprehensive guide to the TExES Physics/Mathematics 7-12 Exam as a whole, it also provides practice test questions as well as detailed explanations of each answer. ***TExES Physics/Mathematics 7-12 (243) Exam Secrets Study Guide*** includes:

- A detailed overview of the TExES Physics/Mathematics 7-12 (243)
- An examination of number concepts
- A guide to patterns and algebra
- An in-depth look at geometry and measurement
- A review of probability and statistics
- An analysis of mathematical processes and perspectives
- A breakdown of mathematical learning, instruction and assessment
- An extensive review of scientific inquiry and processes
- A full study of physics
- 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 Texas State Board for Educator Certification (SBEC) expects you to have mastered before sitting for the exam. **The Number Concepts section covers:**

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

The Patterns and Algebra section covers:

- Functions
- Stretch, shrink, and reflection
- Rational functions
- Monotone, even, and odd functions, and discontinuities
- Equal functions
- Matrix

The Geometry and Measurement section covers:

- Altitude, height, concurrent, and orthocenter
- Plane

- Types of congruent triangles
- Area and perimeter of polygons
- Geometric description of parabola

The Probability and Statistics section covers:

- Sample space and outcome
- Odds in favor or against
- Central tendency
- Experimental studies

The Mathematical Processes and Perspectives section covers:

- Proofs
- Inductive and deductive reasoning
- The Golden Ratio and the Fibonacci sequence
- T-value vs. critical t-value

The Mathematical Learning, Instruction and Assessment section covers:

- Cognitive theorists and constructivists
- Prior knowledge
- Effective learning environment for ELL students
- Formative and summative assessments

The Scientific Inquiry and Processes section covers:

- Scientific process
- Scientific measurement and unit systems
- Basic safety procedures
- Contributing individuals to physics

The Physics section covers:

- Vectors and scalars
- Newton s Laws
- Fluids
- Laws of Thermodynamics
- Lorentz transformations and equations

These sections are full of specific and detailed information that will be key to passing the TExES Physics/Mathematics 7-12 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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