



MTEL Biology (13) Exam Secrets Study Guide: MTEL Test Review for the Massachusetts Tests for Educator Licensure

MTEL 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 MTEL Biology test. The MTEL Biology (13) Exam is extremely challenging and thorough test preparation is essential for success. *MTEL Biology (13) Exam Secrets Study Guide* is the ideal prep solution for anyone who wants to pass the MTEL Biology Exam. Not only does it provide a comprehensive guide to the MTEL Biology Exam as a whole, it also provides practice test questions as well as detailed explanations of each answer. *MTEL Biology (13) Exam Secrets Study Guide* includes:

- A detailed overview of the MTEL Biology (13) Exam
- An in-depth look at nature of science
- A full study of chemistry of life and cell biology
- An analysis of the characteristics of organisms
- A guide to human anatomy and physiology
- An extensive review of genetics , evolution, and biodiversity
- A breakdown of populations, ecosystems, 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 Massachusetts Department of Education (MDOE) expects you to have mastered before sitting for the exam. **The Nature of Science section covers:**

- Biology
- Germ theory of disease
- Classification of organisms
- Models
- Genetic testing

The Chemistry of Life and Cell Biology section covers:

- Atomic structure of atoms
- Macromolecules
- Biochemical pathways
- Prokaryotes and eukaryotes
- Active and passive transport

The Characteristics of Organisms section covers:

- Cells and structural organization
- Organs
- Endocrine system
- Behaviors
- Meristematic tissue
- Roots
- Photosynthesis

The Human Anatomy and Physiology section covers:

- Circulatory System
- Endocrine System
- Integumentary System
- Reproductive System
- Skeletal System
- Disorders and Disease

The Genetics, Evolution, and Biodiversity section covers:

- Independent assortment
- Chromosomal aberrations
- Genetic drift
- Endosymbiosis theory
- Speciation
- Extinction of a species
- Translation
- Mutations and mutagens
- Cloning

The Populations, Ecosystems, and the Environment section covers:

- Biosphere
- Exponential population growth model
- Biomes
- Nitrogen cycle
- Fragmentation
- Pollution
- Renewable and sustainable resources

These sections are full of specific and detailed information that will be key to passing the MTEL Biology 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. 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 MTEL Biology Exam. Each answer is explained in depth, in order to make the principles and reasoning behind it crystal clear.



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Paul Leavens:

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