

Living Environment Regents Review Workshop Series

Instructor



Melissa Vander Teems Melissa is a science teacher for the North Rockland Central School District, where she has taught Living Environment to over 300 students over the past 8 years. Her passing rate has consistently been above 95%. She also has over 5 years of experience tutoring Living Environment Regents students in a 1-1 environment.

Discussion Materials

- ❖ NYSED's four state labs:
 - [Making Connections](#)
 - [Diffusion Through A Membrane](#)
 - [Relationships and Biodiversity](#)
 - [The Beaks of Finches](#)
- ❖ NYSED's [past Living Environment Regents Tests, scoring guides & conversion charts](#)

Aim

Review and prepare for the Living Environment Regents Test, including experimental design, data analysis, and state labs.

Audience

These workshops are designed for:

- ❖ Students who are preparing to take the Living Environment Regents Test.
- ❖ Students who would benefit from an introduction to the format of the Living Environment Regents Test.
- ❖ Students who would benefit from a review of course material about:
 - Workshop 1: Scientific inquiry and The Making Connections State Lab
 - Workshop 2: Characteristics of Life, Cells, Transport, and The Diffusion Through A Membrane State Lab
 - Workshop 3: Classification, Protein Synthesis, Enzymes, Human Impact, and The Relationships and Biodiversity State Lab
 - Workshop 4: Reproduction, Inheritance, Evolution, Ecology, and The Beaks of Finches State Lab
 - Workshop 5: Comprehensive review of all material

Prerequisite Concepts

Participants should have a rudimentary understanding of the topics being addressed in the workshop(s) they attend, as listed above, as these sessions will be reviews of course material, not introductions to course material.

Goals

Workshop 1 Foundations of Scientific Inquiry

Date & Time: (4/20/2024 | 2-3:30pm ET)

- Observe the format for the [Living Environment Regents Test from June 2023](#) to gain a better understanding about the test for which they are preparing.
- Learn some keywords frequently used in Regents questions (ex: "identify").
- Self-grade a few open-ended questions to gain an understanding of the importance of leaving no question unanswered.
- Review the following vocabulary: independent variable, dependent variable, control group, experimental group, constants, validity, etc..
- Practice creating appropriate scales for a graph.
- Review the *Making Connections* state lab.
- Practice answering past regents questions related to the above listed topics.

Signup: Enroll for any or all Workshops [here](#)
info@milrd.org

Workshop 2 - How Organisms Maintain Homeostasis

Date & Time: (4/27/2024 | 2-3:30pm ET)

- Review the characteristics of life.
- Review types of cells and the following organelles: cell membrane, cell wall, chloroplasts, cytoplasm, mitochondria, nucleus, ribosomes, and vacuoles.
- Compare and contrast some ways that multicellular and unicellular organisms maintain homeostasis.
- Review vocabulary related to cell transport: active transport, passive transport, diffusion, osmosis, concentration gradient, and contractile vacuoles.
- Review the *Diffusion Through A Membrane* state lab.
- Practice answering past regents questions related to the above listed topics.

Workshop 3 - Relatedness Between Species

Date & Time: (5/11/2024 | 2-3:30pm ET)

- Review taxonomy and dichotomous keys.
- Review molecular genetics, with an emphasis on protein synthesis and enzymes.
- Review types of human impact commonly asked about on the regents test.
- Review the *Relationships and Biodiversity* state lab.
- Practice answering past regents questions related to the above listed topics.

Workshop 4 - Competition and Adaptations

Date & Time: (6/1/2024 | 2-3:30pm ET)

- Review vocabulary related to reproduction, including: types of asexual reproduction, internal vs external fertilization and development, and gametogenesis.
- Review concepts from Mendelian and Non-Mendelian inheritance.
- Review ecology topics related to competition of resources.
- Use the above listed concepts to determine factors that affect evolution.
- Review evidence of evolution.
- Review the *Beaks of Finches* state lab.
- Practice answering past regents questions related to the above listed topics.

Workshop 5 - Comprehensive Review

Date & Time: (6/8/2024 | 2-3:30pm ET)

- Review the functions of the body systems, with emphasis on how they work together to maintain homeostasis.
- Review some disorders that are most commonly mentioned on the Regents Exam.
- Generally and briefly overview / review the four state labs. *This will be a minimal portion of this session as they will have already been reviewed in Workshops 1-4.*
- Review important evolution and ecology concepts using Part C test questions.
- Practice answering past regents questions related to the above listed topics.
- Access materials provided as additional independent studying resources.

Structure & Time Commitment

- Each online workshop in the series is 1.5 hours long
- Interactive online workshop led by a certified Living Environment teacher, featuring presentation, discussion, and analysis via MILRD's platform
- Participants receive 24/7 access to the material for each workshop they enroll in via MILRD's platform through administration of the test (June 14, 2024)

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