

Protein Synthesis/Gene Mutations

Marzano Framework Biology HS

Start Date: December 05, 2011

End Date : December 23, 2011

Why is it important?

<p>Enduring Understandings</p> <p>Summarize the process of transcription and translation. Compare the roles of mRNA, rRNA, and tRNA in translation.</p>	<p>Essential Questions</p> <p>What are the roles of transcription and translation? What is the process of protein synthesis? How does the shape of a protein determine its function? How do mutations cause change in proteins that lead to evolution?</p> <p>Learning Targets:</p> <p>Explain transcription and its role. Explain translation and its role. Differentiate between the three types of RNA. Identify the shape of a protein and its function. Explain how mutations cause change in proteins that lead to evolution.</p>	<p>Key Vocabulary</p> <p>ribonucleic acid (RNA) transcription translation protein synthesis ribose messenger RNA (mRNA) ribosomal RNA (rRNA) transfer RNA (tRNA) RNA polymerase promotor termination signal genetic code codon anticodon genome</p>
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Standards

OH_Academic_Content_Standards - Science (2011) - Biology

Content 1 Heredity

- 1.2 Structure and function of DNA in cells
- 1.3 Genetic mechanisms and inheritance
- 1.4 Mutations

Why am I teaching?

<p>Unit Objectives</p> <p>Summarize the process of transcription and translation. Compare the roles of mRNA, rRNA, and tRNA in translation.</p>

What additional resources do I need?

Notes	Web 2.0 tools	Resources
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		PowerPoint Notes DVD's Worksheets Lab: Protein Synthesis Model
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Monday December 05, 2011 - Protein Synthesis/Gene Mutations

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What am I planning for my lesson?

Daily Objectives	Daily Vocabulary
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Standards

What is my instruction for today?

Marzano Instructional Strategies	Differentiated Instruction	Instructional Delivery
Lesson Outline	Lesson Segment	Resources

What are my additional thoughts regarding this lesson?

Reflection

Standards Summary - Protein Synthesis/Gene Mutations

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December 05, 2011 through December 23, 2011

Standards

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