

Heredity: Medel/Genetics/Punnett Squares

Marzano Framework Biology HS

Start Date: January 16, 2012

End Date : February 03, 2012

Why is it important?

<p>Enduring Understandings</p> <p>Be familiar with Gregor Mendel's studies on heredity and use Punnett squares to predict the results of monohybrid and dihybrid genetic crosses.</p>	<p>Essential Questions</p> <p>What is a monohybrid cross and what is its genotypic/phenotypic ratios? What is a dihybrid cross and what is its genotypic/phenotypic ratios? What did Mendel's studies on heredity involve? How did Mendel's discoveries affect modern genetics? Why is a Punnett Square used?</p> <p>Learning Targets</p> <p>Compare and contrast monohybrid and dihybrid crosses. Discover Mendel's principles of heredity. Construct a Punnett square. Identify Mendel's discoveries and their uses in modern genetics. Recognize the differences between phenotype and genotype.</p>	<p>Key Vocabulary</p> <p>genetics heredity trait pollination self-pollination cross-pollination true-breeding P generation F1 generation F2 generation dominant recessive law of segregation law of independent assortment molecular genetics allele genotype phenotype homozygous heterozygous probability monohybrid cross Punnett Square genotypic ratio phenotypic ratio testcross complete dominance incomplete dominance</p>
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Standards

OH_Academic_Content_Standards - Science (2011) - Biology

Content 1 Heredity

1.1 Cellular genetics

1.5 Modern genetics

Why am I teaching?

Unit Objectives

Be familiar with Gregor Mendel's studies on heredity. Use Punnett squares to predict the results of monohybrid and dihybrid genetic crosses.

What additional resources do I need?

Notes	Web 2.0 tools	Resources PowerPoint Notes Worksheets DVD's Lab: Mendel/Sutton Lab: Fruit Flies Lab: Genetic Child
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Standards Summary - Heredity: Medel/Genetics/Punnett Squares

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No Plan Available

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