

## Classification

Marzano Framework Biology HS

Start Date: March 19, 2012

End Date : April 06, 2012

### Why is it important?

<p>Enduring Understandings</p> <p>Understand the classification system of the past, present, and future.</p>	<p>Essential Questions</p> <p>What are the similarities and differences between biodiversity and classification? How is the classification system organized? What is the use of a cladogram? Are there any discrepancies in the six-kingdom system? What are the differences between the three domains?</p> <p>Learning Targets</p> <p>Relate biodiversity to biological classification. List the common levels of modern classification from general to specific. Describe how a cladogram is made. Identify problematic taxa in the six-kingdom system. List the characteristics that distinguish between the domains Bacteria, Archaea, and Eukarya.</p>	<p>Key Vocabulary</p> <p>biodiversity taxonomy taxon kingdom domain phylum division class order family genus species binomial nomenclature subspecies systematics phylogenetics phylogenetic diagram cladistics shared character derived character clade cladogram bacteria archaea eukarya eubacteria archaebacteria protista</p>
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		fungi plantae animalia
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### Standards

#### OH\_Academic\_Content\_Standards - Science (2011) - Biology

Content 2 Evolution

2.2 Diversity of Life

2.2.1 Speciation and biological classification based on molecular evidence

2.2.2 Variation of organisms within a species due to population genetics and gene frequency

Content 3 Diversity and Interdependence of Life

3.1 Classification systems are frameworks created by scientists for describing the vast diversity of organisms indicating the degree of relatedness between organisms.

### Why am I teaching?

Unit Objectives

Relate biodiversity to biological classification. List the common levels of modern classification from general to specific. Describe how a cladogram is made. Identify problematic taxa in the six-kingdom system. List the characteristics that distinguish between the domains Bacteria, Archaea, and Eukarya.

### What additional resources do I need?

Notes	Web 2.0 tools	Resources PowerPoint Notes River Trip Dichotomous Key Lab River Drawings Worksheets DVD's
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## **Standards Summary - Classification**

Marzano Framework    Biology HS  
March 19, 2012 through April 06, 2012

**No Plan Available**

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