

Ecology

Marzano Framework Biology HS

Start Date: April 09, 2012

End Date : June 01, 2012

Why is it important?

<p>Enduring Understandings</p> <p>Understand the various roles in ecology and why each role is a vital part of the environment.</p>	<p>Essential Questions</p> <p>What is a representation of interdependence? What are the five levels of organization? What are producers and why are they essential to a functional ecosystem? What are the four biogeochemical cycles and their importance?</p> <p>Learning Targets</p> <p>Describe an example showing the effects of interdependence upon organisms in their environment. State the five different levels of organization at which ecology can be studied. Summarize the role of producers in an ecosystem. List four major biogeochemical cycles.</p>	<p>Key Vocabulary</p> <p>ecology interdependence ecological model biosphere ecosystem community population habitat biotic factors abiotic factors tolerance curve acclimation conformer regulator dormancy migration niche generalist specialist producer chemosynthesis gross primary productivity biomass net primary productivity consumer herbivore carnivore omnivore</p>
---	---	--

Ecology

Marzano Framework Biology HS

Start Date: April 09, 2012

End Date : June 01, 2012

		detrivore decomposer trophic level food chain food web biogeochemical cycle water cycle transpiration carbon cycle nitrogen cycle nitrogen fixation nitrogen-fixing bacteria ammonification nitrification denitrification phosphorus cycle
--	--	---

Standards

OH_Academic_Content_Standards - Science (2011) - Biology

Content 3 Diversity and Interdependence of Life

3.2 Ecosystems

3.2.1 Homeostasis

3.2.1.a Carrying capacity

3.2.1.b Equilibrium and disequilibrium

Why am I teaching?

Unit Objectives

Describe an example showing the effects of interdependence upon organisms in their environment. State the five different levels of organization at which ecology can be studied. Summarize the role of producers in an

Ecology

Marzano Framework Biology HS

Start Date: April 09, 2012

End Date : June 01, 2012

ecosystem. List four major biogeochemical cycles.

What additional resources do I need?

Notes	Web 2.0 tools	Resources PowerPoint notes Worksheets Textbook readings and questions DVD's Biosphere Project Endangered Species Project Mealworm Lab Natural Selection Lab Invasive Species Internet Assignment Predator/Prey Lab
-------	---------------	--

Standards Summary - Ecology

Marzano Framework Biology HS
April 09, 2012 through June 01, 2012

No Plan Available

Standards Summary - Ecology

Marzano Framework Biology HS
April 09, 2012 through June 01, 2012

Standards

OH_Academic_Content_Standards - Science (2011) - Biology

Content 3 Diversity and Interdependence of Life

3.2 Ecosystems

3.2.1 Homeostasis

3.2.1.a Carrying capacity

3.2.1.b Equilibrium and disequilibrium