UNIT OF STUDY

Title: Ecosystems and Communities **Subject/Course**: Biology **Length**: 2 weeks **Topic**: Ecology and Behavioral Relationships(2) **Grade**: 10th grade **Designer**: Woods	
UNIT GOALS AND EXPECTATIONS	
IMPORTANT CONCEPTS/UNDERSTANDINGS: Organisms both cooperate and compete in ecosystems. The interrelationships and interdependencies of these organisms may generate ecosystems that are stable for hundreds or thousands of years. Living organisms have the capacity to produce populations of infinite size, but environments and resources are finite. This fundamental tension has profound effects on the interactions between organisms.	ESSENTIAL QUESTIONS: How are relationships between organisms classified? How is Earth's climate determined by distance and positioning around the sun?
STUDENT LEARNING EXPECTATIONS: EBR.8.B.1 Cite examples of abiotic and biotic factors of an ecosystem. EBR.8.B.2 Compare and contrast the characteristics of biomes. EBR.8.B.6 Summarize the symbiotic ways in which individuals within a community interact with each other and the environment -mutualistic -parasitic -Commensalism -habitat -niche EBR.8.B.7 Compare and contrast primary succession with secondary succession.	
SPECIFIC DECLARATIVE KNOWLEDGE – What I know Identify the causes of climate. Explain how Earth's temperature range is maintained. Identify Earth's three main climate zones. Explain how biotic/abiotic factors influence an ecosystem. Identify interactions within communities. Describe how ecosystems recover from a disturbance. Identify the major land biomes. Identify the factors that govern aquatic ecosystems.	SPECIFIC PROCEDURAL KNOWLEDGE – What I need to do Identify biomes based on climate information. Identify abiotic/biotics factors and their affect on ecosystems.
UNIT ASSESSMENTS (Include tasks related to Dimensions 3 and 4 and Bloom's Taxonomy)	
"North American Biomes Project" Current Event Open Response	
Traditional Assessments: "Blown Away" Open Response Test	Other Evidence of Learning: "North American Biomes Project"

ACTIVITIES AND LEARNING EXPERIENCES	Resources
"North American Biomes Project" Current Event Open Response Establish Habits of Mind for Science in Critical Thinking, Creative thinking, and Self Regulated Thinking Vocabulary Strategy Daily Notebook Entries	Prentice Hall Textbook: Biology TI-83's Internet Powerpoint http://botany1.bio.utk.edu/botany120lect/Biomes/biomemap.htm
Career Connections	
Need career connection	