



S4L1: The students will describe the roles of organisms and the flow of energy within an ecosystem.

a. Identify the roles of producers, consumers, and decomposers in a community.

EQ: Are all organisms important?

EQ: What roles in a community do organisms play?

Ecosystems Project

You have been assigned the following biome _____

Answer the following questions:

1. Define your biome.

2. What major factors affect your biome?

3. What animals are found in your biome?

4. What plants are found in your biome?

5. What causes the biome you are researching to develop?

6. Where is the biome you are researching located?

7. Is there more than one type of the biome you are investigating?

8. What unusual or interesting facts did you discover?

Write all information in complete sentences. Sentences must be complete, capitalized and punctuated corrected. Do not copy sentences. Write your OWN!!!!

** Show where your biome is located on a map of the United States.

Make a museum artifact of your biome. For example, you could build a model of their home. You could also design a booklet/poster/brochure that includes all of the required information or you can create a PowerPoint to share with the class.

Use books, magazines, and websites to help you find out all you can about the biome that you have chosen. You may find a list of helpful links attached. (Provides information for all of the biomes)

You will give a brief presentation to share some of the information you learn. Do not read your report to the class. Just tell us about something interesting that you learned.

Gathering information will be a group assignment along with creating your artifact. Yes, working together can be fun!!! This will be your group participation grade. You will turn in this completed information packet along with your own written report for an individual grade. You may type or write your report.

Student Signature: _____ **Date:** _____

Parent Signature: _____ **Date:** _____

Ecosystem Biomes Project is due: _____



Ecosystems Project Checklist

Standard:

S4L1: The students will describe the roles of organisms and the flow of energy within an ecosystem.

a. Identify the roles of producers, consumers, and decomposers in a community.

EQ: Are all organisms important?

EQ: What roles in a community do organisms play?

Did you complete the following criteria?	Not Yet 0	Yes 1
Definition of your biome		
Factors that affect your biome		
Animals that live in your biome		
Plants that live in your biome		
What caused your biome to develop		
Where is your biome located		
Is there more than one type of your biome		
Did you discover any interesting or unusual facts about your biome		
Model Requirement: Diorama, poster or booklet (Something that highlights the information about your biome animal life, plant life, etc.)		

Standard:

S4L1: The students will describe the roles of organisms and the flow of energy within an ecosystem.

- a. Identify the roles of producers, consumers, and decomposers in a community.



Ecosystems Project Rubric

Criteria: The Student	1 Below the Standard	2 Approaching the Standard	3 Meets the Standard	4 Exceeds the Standards	Total Score
Definition of biome	No Evidence	Vague: Part of the definition is written.	Theme is woven. The definition is written.	Definition is defined correctly with its part of speech.	
Factors that affect the biome	No Evidence	Vague: Name a factor of the biome.	Theme is woven. The factors are written.	The factors are written along with how they affect the biome.	
Animals that live in the biome	No Evidence	Vague: Names only one animal.	Theme is woven. Animals are noted in the biome.	Animals are discussed along with how they adapt in the biome.	
Plants that live in the biome	No Evidence	Vague: Names only one plant.	Theme is woven. Plants are noted in the biome.	Plants are discussed along with how they adapt in the biome.	
What caused your biome to develop	No Evidence	Vague: Name one cause of its development.	Theme is woven. Clearly states the development of the biome.	Appropriately states what caused the biome to develop and how it affects the habitat.	
Where is your biome located	No Evidence	Vague: Names one part of the region.	Theme is woven. Clearly defines the biome's region.	Appropriately shows the location of the region and outlines it.	
Is there more than one type of biome	No Evidence	Vague: Names a partial biome.	Theme is woven. Clearly states the other related biomes.	Appropriately names the other biomes and tell how they are connected.	
Did you discover any unusual facts about biome	No Evidence	Vague: Wrote an unusual fact about the biome.	Theme is woven. Wrote various facts about the biomes.	Appropriately states the unusual facts about the biomes and the impact they have on its habitat.	
Grammar and Sentence Structure/Spelling	No Evidence	Vague: Some sentence structure, misspelled words.	Theme is woven. The sentences are written correctly, along with the correct spelling of the words.	Appropriately constructs the sentences and the words are spelled correctly. They also labeled the different parts of speech used within their written report.	
Model Requirement: Diorama, poster or booklet (Something that highlights the information about your biome animal life, plant life, etc	No Evidence	Vague: Part of a visual is present with some form of vegetation and animal life.	Theme is woven. Display shows vegetation and animal life as it relates to the biome.	Appropriately displays the plants and animal life of the biome along with labels showing what each of the plants, animals etc. are and their purpose in the biome.	