

## The Biome Project

**Purpose:** Identify biomes based on environmental factors and native organisms.

**General Guidelines:** Each group of students will research biotic and abiotic factors of a chosen biome. The information will be presented in such a way to create a travel advertisement that will attract visitors to the biome. The presentation may be through PowerPoint, a travel brochure, video, or a tri-board/poster advertisement which will be presented to the class.

**Instructions:** Colorful pictures and graphics should be used throughout the project. Creativity and neatness count! Your project should include the following information:

1. Biome's place on earth
  - Where is it (geographical distribution)?
  - What are its abiotic factors?
  - What are the native plants and their adaptations to live there?
  - What are the native animals and their adaptations to live there?
  - Give examples of cooperation and competition between and among species.
2. Attractions/Tour Packages
  - Advertise your biome's recreational activities
  - Publicize points of interest
  - Suggest other biomes nearby for side trips
3. Weather Report (Used to aid tourists in packing their gear)
  - What is the average precipitation?
  - What is the average temperature?
  - Suggest supplies/gear that tourists should bring to make their trip more enjoyable.
4. Warnings
  - What are some threats to this biome?
  - Are there any endangered species?
  - Is there a fear of climate change for this biome?
5. Analysis/Evaluation
  - Why is this biome globally important?

ACOS Standard 15

Biome Project Rubric					
	4	3	2	1	
Geographical and Species Information:	biome's location correctly and clearly identified (should contain text and some illustration like a map)	Correctly located; has a visual (map)	Correct location & no visual OR visual & incorrect location	Incorrectly located and no visual	No biome location and no visual
	abiotic factors are identified	3 abiotic factors listed/described	2 abiotic factors listed/described	1 abiotic factor listed/described	No abiotic factors listed/described
	native plants are included (minimum of 2)	More than 2 plants included; both or all native	2 plants included; both native	1 or 2 plants included but one or both is not native	No plants included or none are native
	adaptations of native plants are indicated	Adaptations given for all native plants (more than 2)	Adaptations provided for both native plants listed (2)	Adaptation given for only 1 native plant	no adaptations described
	native animals are included (minimum of 3)	More than 3 animals included; all native	3 animals included; all native	2 animals included; not all native	Fewer than 2 animals included
	adaptations of the native animals are indicated	Adaptations given for all native animals (more than 3)	Adaptations provided for native animals listed (3)	adaptations described for one or both animals listed	no adaptations described
	at least 2 examples of cooperation and/or competition are provided	2 examples of cooperation and/or competition provided with description	1 example of cooperation &/or competition with no description	1 example of cooperation &/or competition with no description	No examples
	recreational activities listed (minimum of 3)	3 recreational activities listed	2 recreational activities listed	1 recreational activity listed	No recreational activities listed
	minimum of 2 points of interest are represented	2 points of interest represented and described	1 point of interest noted and described	1 or 2 points of interest noted with no description	No points of interest represented
	Minimum of 2 other adjacent/nearby biome identified	2 other biome identified that are adjacent or nearby	1 other biome identified that is adjacent or nearby	2 other biomes identified but not nearby	1 other biome identified but not nearby
Weather Report:	average precipitation clearly indicated	Correct and clearly indicated	Correct but not clearly indicated	Incorrect but clearly indicated	No information given
	average temperature clearly indicated	Correct and clearly indicated	Correct but not clearly indicated	Incorrect but clearly indicated	No information given
	suggested supplies/gear provided (should include clothing)	Clothing, gear, & other supplies included	Addresses only 2 of the previous 3 items	Addresses only 1 of the previous items	No suggestions given
Warnings:	Threats to biome are identified/described	Adequate identification; description/discussion included	Adequate identification; little or no description or discussion	Identification unsatisfactory; no description or discussion	Threats not identified
	Endangered species are identified (can be animal, plant, or fungus)	More than 2 endangered species identified; with pictures	1 or 2 endangered species identified; with pictures	1 or 2 endangered species identified; no pictures	no endangered species identified
Analysis/Evaluation:	Impact of possible climate change on the biome is addressed	Impact is completely addressed (5-7 sentences)	Impact is adequately addressed (3-4 sentences)	Impact is minimally addressed (1-2 sentences)	Impact is not addressed
	Global importance of the biome is explained	Explanation is reasonable and understandable	Explanation is reasonable but clearly understood	Explanation is understandable but not reasonable	Global importance not explained
				<b>Total Points Earned</b>	