

Biomes and Types of Ecosystems Project

Purpose of the project:

The purpose of this project is to learn the differences in types of environments around the world. You should start becoming familiar with what's out in the world besides this area.

Project guidelines:

You will be designing a PowerPoint presentation or Prezi presentation on the topic you choose. The presentation can be any length as long as you keep it to 3-5 minutes. Follow the rubric and requirement below to help you design the presentation. You do not have to put your slides in this exact order. Attach your PowerPoint in an email and send it to me by **Wednesday, May 9**. My email is kirkpatrickn@morainevalley.edu

Requirements for the PowerPoint: (see rubric for point values)

- ✓ Countries or areas of the world that contain your biome/ecosystem (include a picture of a map)
- ✓ 1 or 2 pictures of what it would look like if you were standing in your biome/ecosystem.
- ✓ Discuss the climate of the biome (see rubric).
- ✓ 10 animals that live in your biome/ecosystem (include a picture for each)
- ✓ 10 plants that live in your biome/ecosystem (include a picture for each)
- ✓ How can your biome be useful? (Talk about scientific studies that you find that occur in your area. You can also talk about the economic value of your area, if there is any.)
- ✓ Make a slide with 3 or 4 interesting facts that you did or didn't know about for your biome/ecosystem. (Ex: Wetlands remove pollution from water.)
(Ex: 179 people have died trying to climb Mt. Everest)
- ✓ 1 short video about any type of interaction that occurs in your biome/ecosystem, you can embed the video if you know how. If not, then put a hyperlink from the website onto the slide properly.
- ✓ **Link all of this content to sustainability. (see rubric on back for explanation)**
- ✓ **NOTE: You will be graded on spelling and neatness of the PowerPoint.**

Here is a list of biomes or types of ecosystems you can choose from:

Tropical Rain Forest	Temperate Rain Forest	Boreal forest (taiga)
Temperate Deciduous Forest	Savanna	Tundra
Temperate grassland	Mountains	Lakes and Ponds
Wetlands	Chaparral	
River-pick a river system	Ocean-pick a specific area in a specific ocean	
Desert-pick cold, semi-arid, coastal, or hot/dry		

Biome/Ecosystem Presentation Rubric

Name/Group: _____

Biome/Ecosystem: _____

<u>Presentation requirements</u>	<u>Your points</u>	<u>Possible points</u>	<u>Comments</u>
1. Title Slide- Included your biome name, your name, and class/section.		1	
2. Countries/Maps- Listed countries and showed 1 or 2 maps of where you biome is located.		2	
3. Video- Embedded or included a hyperlink of a video that depicts the biome/ecosystem accurately.		2	
4. Climate- Discussed the type of climate by including precipitation, temperatures, and/or weather patterns.		5	
5. Examples- Included at least 10 different pictures of animals and 10 different pictures of plants. You must include the name of each species with each picture.		5	
6. Reference slide- last slide had at least 3 references and 1 was from a book or journal.		5	
7. Importance of the biome- Discussed how the biome benefits the planet somehow. Explained at least one scientific study that supports the usefulness of the biome.		10	
8. Sustainability- Discussed the overall health of the biome. Outlined how negative impacts can lead to other problems in the biome. Discussed 2 or 3 ideas on how we can make a difference to reduce these negative effects.		10	
9. Presentation- 3-5 minutes long. Good pictures and visual aids. It had 10 slides. Fluid transitions. Very audible and easy to understand.		10	

Total: _____ / **50**

Explanation of assignment

I decided to create a biome sustainability assignment for my Bio 112 course. I am going to assign this project this semester and will most likely use it for filling out the AQIP sustainability rubric. We started a discussion on ecology in my Bio 112 a day or two ago, so this project fits perfectly. During this unit, we discuss population ecology, community ecology, biomes, and environmental issues. This project will reflect on the biome and environmental issues very well. Since I'm planning on having my students present their projects, it gives them a chance to teach each other some of these concepts (instead of me standing up there and lecturing about it). A big part of the project is to address sustainability issues in their biome and to give some solutions. I'm hoping this will get my students to critically think about what is going on around the world. The project guidelines and rubric depict how the students will research and present sustainability issues.