

Name: _____

Presentation Dates: _____

Biome Research Project

Introduction: You and your team are a part of an international environmental activist group which has been hired to bring attention to and help save various biomes around the world. The goal is to not only entice people to visit these areas, but also encourage people to help in the preservation of these areas.

Task:

Working in groups of 4, please develop a short presentation to the class to highlight the importance of your biome and to persuade people to help you in your cause to save your biome.

Biome Choices:

Tundra

Taiga

Temperate Forest

Tropical Forest

Desert

Grasslands

Process:

Each group will be assigned a biome. It is the team's job to research the biome and gather facts and information about that biome. Each member of the team will become an expert in a particular aspect of the biome. As a group, the team will create a PowerPoint/Prezi presentation to give to the rest of the class trying to convince them that they should not only help to save your biome, but also should travel to your particular area. In addition, your team will be responsible for creating a poster or model of what the biome looks like and all of its diverse organisms (plants, animals, etc). In addition, your group will be responsible for creating a slogan reflective of the biome. Remember to be as creative as possible in your presentation!

Team Roles for research

Botanist/Zoologist and Slogan Creator: What are the plants that live there, and their structural adaptations? What are the animals that live there, and their adaptations? Develop a creative slogan to protect your particular biome.

Activity Planner/Tourist Specialist and model/poster designer: What are some activities that people can do while they are visiting your biome? In addition, what are some tourist attractions in your biome? You are also to help the geographer create the model/poster that will highlight what your biome looks like. You must also be able to describe your model/poster of the terrain of your biome.

Meteorologist/Gear Specialist and PowerPoint/Prezi designer: What is the climate, and distinguishing abiotic factors? What are some environmental issues plaguing this area? What should people bring/wear to prepare to visit your biome? You are also responsible for editing and reviewing the PowerPoint.

Geographer and model/poster designer: Where are these biomes found, what are major geological/geographic features? You are to help the activity planner create the model/poster. You must also be able to describe your model/poster of the terrain of your biome.

Discuss with your team which role each of you will assume. Remember that you are all responsible for learning about the biome that you are presenting, but your role reflects an area of particular focus for you as you research.

Each team member should record facts and information about the biome as they research. This factsheet will be turned in to show that you did your share of the group work. Please **DO NOT print out whole web pages, a list of facts on notebook paper is fine.**

Information that MUST be included in your PowerPoint/Prezi presentation:

1. A map of where the biome exists world wide—identify the specific location of where you are suggesting people to help protect and visit (ex: if you are working with the Tundra, you may want to suggest that people go to and help protect Greenland). (*Geographer and model/poster designer*)
2. A thorough description of the climate (precipitation, wind patterns, humidity levels) and weather (general day to day weather) patterns that exist there. In addition, you must include the best time of year to visit your particular area. In addition, what should people make sure to bring with them if they were to visit this area. (*Meteorologist/Gear Specialist and PowerPoint/Prezi designer*)
3. Thorough description of 4 animals and 4 plants that live there (must provide 1 fact and 1 picture per animal and plant). In addition, please provide at least 2 organisms that are endangered in that area and please explain why they are endangered (*Botanist/Zoologist and Slogan Creator*)
4. At least 2 abiotic factors that affect the plant life (ex: how does a lack of moisture affect the plants that live in the desert? What adaptations have they developed to account for this?) In addition, please include 2 specific environmental issues that currently plague that area that might be affecting the abiotic and biotic factors living there. (*Meteorologist/Gear Specialist and PowerPoint/Prezi designer*)
5. What is the geography like in this biome? Are there valleys? Mountains? Lakes? Near the ocean? Flat land? Hills? Provide at least 3 features. (*Geographer and model/poster designer*)
6. A food chain or food web that exists in this biome (you may find a picture and use the picture, but you must be able to explain what the food chain/web means in your presentation). In addition, please explain how the food web/food chain is being negatively affected by either natural factors or human factors. (*Botanist/Zoologist and Slogan Creator*)
7. Activities to participate in (at least 2), tourist attractions to visit (at least 2), at least 1 unique and special attraction that you couldn't find anywhere else in the world and one guided tour that you could take in that area. (*Activity Planner/Tourist Specialist and model/poster designer*)
8. Lasting pitch for why we should come to visit your biome and why it is important for people to protect your specific biome (*Activity Planner/Tourist Specialist and model/poster designer*).
9. Please arrange the powerpoint/prezi together in a creative manner and make sure that the spelling and grammar has been checked (*Meteorologist/Gear Specialist*)
10. Please provide MLA Citations for both information and pictures for this project (you can attach this as a separate sheet).

Information that MUST be included with your model/poster (worked on by both Activity/Tourist Specialist and Geographer):

1. A thorough picture/drawing/model of what the biome looks like in terms of its terrain/geography (hills, mountains, rivers, lakes, etc).
2. Thorough picture of the type of wildlife that one would find in that area (at least 4).
3. Specific location chosen to highlight (specific location in the world that you are highlighting).

Information that MUST be included during the presentation:

1. Creative slogan designed to help save your biome and attract positive tourism (*Zoologist/Botanist*).

Project Plan and Class Time to Work On:

Presentation Dates:

How will you be graded? Your project will be divided into three main parts: The presentation, model/poster and general process items.

Criteria/Necessary Components	Points Possible	Points Earned and Comments
<u>POWERPOINT/PREZI PRESENTATION:</u>		
Map: shows where ecosystem is located worldwide and provides the specific location for where people should be traveling to/helping to protect.	3	
Climate: Description of the climate, general day-to-day patterns, time of the year to visit, clothing/necessities to bring with you to travel here.	4	
Wildlife: Provides thorough description of 4 animals and 4 plants that live here. Provides 2 endangered organisms and why they are endangered.	8 4	
Abiotic Factors: Provides 2 abiotic factors that affect plant life, explanation of the adaptations they have developed. 2 specific environmental issues plaguing the area and how its affect not only the wildlife, but abiotic factors.	4 4	
Geography: Provides a description of the terrain and geography—in explanation 3 specific features are identified.	3	
Food chain/food web: Provides a picture of food chain/food web found in biome and explains the food web. Explanation of how the food chain/web is currently being negatively affected by factors.	2 2	

Activities: Provides at least 2 activities to participate in while visiting the biome.	2	
Provides 2 tourist attractions.	2	
Provides 1 unique attraction.	1	
Identifies 1 specific guided tour to take.	1	
Last Pitch: Provides a last pitch/reason for why we should not only visit this area but be involved in its preservation.	1	
Organization and Creativity: PowerPoint/prezi is organized in a creative manner.	2	
<u>MODEL/POSTER:</u>		
Picture/Drawing: The poster/model includes a thorough and accurate picture of what the biome looks like (terrain).	4	
Wildlife: The poster/model includes at least four organisms (plants and/or animals) that one would find in that biome.	4	
Location: Specific location has been chosen for the poster and it is clear where that location is.	1	
<u>SLOGAN</u>		
Slogan: Specific and creative slogan is provided to help save the biome and attract positive tourism.	3	
<u>PROCESS:</u>		
Group Members Information Sheet: Completed	1	
Individual notes/fact sheet	1	
Neatness/Creativity/Originality: Project as a whole shows a considerable amount of effort, is neat and organized, and there is no information that has been directly copied and pasted!!	5	
Presentation and Group Participation: All group members participated in the presentation. Presentation was engaging, thorough, and at least 4 minutes.	2	
Spelling/Grammar: Project has no spelling or grammatical issues.	3	
MLA Citations: Provide proper MLA citations for the information in the PowerPoint/Prezi and poster/model.	3	
TOTAL POINTS:	70	

Group Members Information Sheet (show to Ms. Petry when finished completing):

Name of group members:

1. _____
2. _____
3. _____
4. _____

Biome your group will be researching:

Role of group members: What will each of you work on to complete project? PowerPoint/Poster? Model/poster? Slogan?

Role of Group member 1: _____

Role of Group member 2: _____

Role of Group member 3: _____

Role of Group member 4: _____

