

Biome Presentation Project

Honors Biology

The student will investigate and understand dynamic equilibria within populations, communities, and ecosystems. Students may work in groups of two students from the same class.

You may choose from the following biomes. Only one group per class may do a biome so choose and sign up quickly.

1. Tropical Rain Forest
2. Savanna
3. Desert
4. Chaparral
5. Temperate Grassland
6. Temperate Deciduous Forest
7. Coniferous Forest (Taiga)
8. Tundra
9. Freshwater - Lakes and Ponds
10. Freshwater - Rivers and Streams
11. Estuaries
12. Marine - Intertidal
13. Marine - Pelagic (Open Ocean)
14. Benthic (aphotic zones)



3-D Biome Diorama: (25 points)

- The box for the project should be shoebox size or larger.
- The diorama should contain:
 - At least 5-10 animal species found in your chosen biome.
(at least half should be endangered species)
 - At least 3-10 plant species found in your chosen biome.
(at least half should be endangered species)
 - The biome should be realistically represented with geographical features such as mountains, streams, rivers, etc.
 - You may use clay, paint, papier-mâché, small plastic trees or animals, or anything else that you can think of to portray your biome correctly.
BE CREATIVE!! YOU DO NOT NEED TO SPEND A LOT OF MONEY!!
 - A background on the back and sides of the box
 - The background may be painted, drawn and colored, or made of a neat collage of pictures cut from magazines

Presentation: (25 points)

- You **MUST** submit a photograph of your diorama on or before the day it is due so that you can do a class presentation.

Biome Display Card (A paper on a standup card): (25 Points)

You should have a one page standing display plaque next to your Diorama that addresses the following:

- An accurate description of your biome including what the seasons are like and how long they last.
- Descriptions of **at least** 3 plant **and** 5 animal species shown in your diorama
 - Descriptions should include adaptations to life in your biome.
 - For endangered species please explain why they are endangered and what conservation efforts are being made
- The average temperature.
- The average yearly rainfall.
- Approximate longitude and latitude of your biome.
- The type of soil that can be found in your biome.
- A description of what life is like in your biome.
- Descriptions of unique conditions in your biome such as, permafrost, length of night and day, any other aspect of your biome that is interesting to you.
- Bibliography of sources using proper bibliography style.

Sources: You may use your textbook, class notes, reference books, and the following Internet websites:

<http://www.ucmp.berkeley.edu/glossary/gloss5/biome/>
<http://www.enchantedlearning.com/biomes/>
<http://www.cotf.edu/ete/modules/msese/earthsysflr/biomes.html>
<http://www.fcasd.edu/schools/dms/Biome.htm>

Use only the websites listed. You can find all of the information that you need using them.

***Plagiarism is unacceptable!! Do not cut and paste information from the Internet directly into your paper.

The Biome-in-a-Box diorama is worth a maximum of 50 points.
The Biome Display Card is worth a maximum of 50 points.

Use the rubrics provided to help you with designing and writing your project.
I will use the rubrics to grade your diorama, presentation and display card.
You must turn in your self graded rubric with your project.

Both the Biome-in-a-Box and the Biome card are:

*****SEE DUE DATE ON FIRST PAGE!!*****



Biome Card

NAME: _____

5=A 4=B 3=C 2=D 1=F

Category	5	4	3	2-0	Student Score
Amount of Information	Paper is at least 1 typed page and all topics are addressed thoroughly.	Paper is at least 1 typed page and all topics are addressed thought some detail is missing.	Paper is less than 1 typed page and all topics are addressed minimally.	One or more topics were not addressed.	
Quality of Information	All information is accurate to chosen biome and is clearly organized.	Most information is accurate to chosen biome and is clearly organized.	Most information is accurate to chosen biome. Organization is unclear.	Most information is inaccurate to chosen biome and organization is unclear.	
Sources: Bibliography	All sources are accurately documented in the desired format.	All sources are accurately documented, but a few are not in the desired format.	All sources are accurately documented, but many are not in the desired format.	Some sources are not accurately documented.	
Mechanics	No grammatical, spelling or punctuation errors.	Almost no grammatical, spelling or punctuation errors.	A few grammatical, spelling, or punctuation errors.	Many grammatical, spelling, or punctuation errors.	
					TOTAL

3-D Diorama Rubric

NAME: _____

5=A 4=B 3=C 2=D 1=F

Category	5	4	3	2-0	Student Score
Attractiveness and Creativity	Display box is very attractive and creativity is evident.	Display box is very attractive.	Display box is somewhat attractive.	Display box is messy and unattractive.	
Accuracy of Animals	More than 5 animals are accurately shown.	At least 5 animals are accurately shown.	Less than 5 animals shown.	Inaccuracy in one or more animals.	
Accuracy of Plants	More than 3 plants are accurately shown.	At least 3 plants are accurately shown.	One plant is inaccurately shown.	More than one plant is inaccurately shown.	
Background	Background is very neatly depicted and present on all three sides.	Background is neatly depicted and present on all three sides.	Background is present on all three sides.	Background is not present on all three sides.	
Completeness	All components of assignment are present.	Most (1 item missing) components of assignment are present.	Some (2 to 3 items missing) components of assignment are present.	Few (more than 3 items missing) components of assignment are present.	
TOTAL					



Score from Diorama: _____

Score from Card: _____

Score from Presentation: _____

FINAL GRADE: _____