

What are 2 similarities between these two ecosystems?

Tropical Deciduous Forest in Brazil



What are 2 differences between these two ecosystems?

Taiga in Alaska



What is climate?



What kinds of things make up our weather?



To get: Blue Warm Up Paper Chrome Book

Objective: Students will explore the biome of their endangered species and describe how humans have impacted it over time

Agenda:

- 1) Warm Up
- 2) Biome Viewer explanation
- 3) Work on pages 4-6 of your species research folio

Homework: Complete Pages 4-6 in Species Research Folio

Log on to your Chrome Book

Go to MyMCPS Classroom OR Mrs. McGaffin's Weebly

Scroll Down to October 7th

Open up Directions to Biome Viewer App

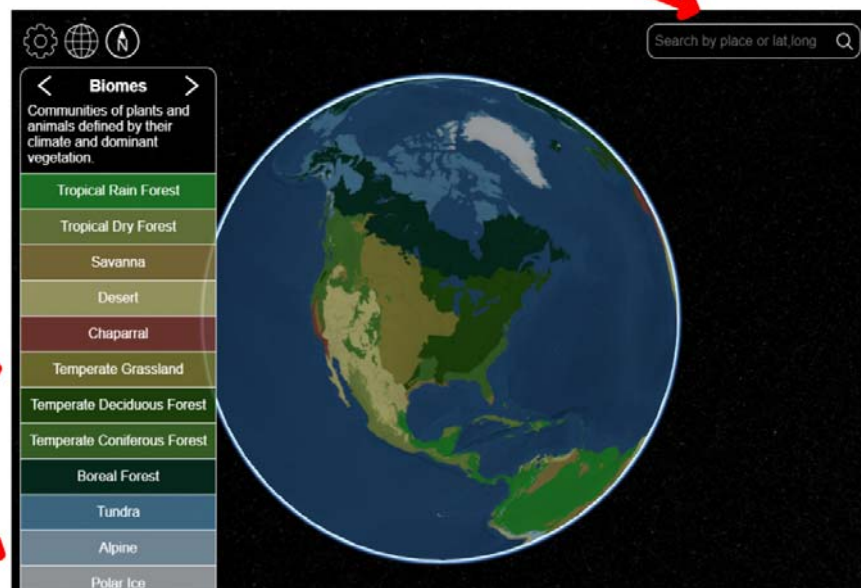
Click on Biome Viewer App

Click "Launch Interactive"

Take 3 minutes to explore the Biome Viewer App

use the search bar to find an area of interest and see what biome it is in

Click here to read about the different Biomes



What Biome is your species found in? (page 4, question 7)

Here is how you can find out...

- 1) Search a location that your species lives in
- 2) In the Biome Viewer App, enter that location into the search bar
- 3) See what Biome your species lives in

Biodiversity of Earth's Biomes

1. Go to [Biome Viewer \(on weebly\)](#)
2. **Choose the biome that your species is found in and attempt to click on a location close to where your species is still found in the wild.**
 - a. What biome did you select? _____
 - b. What specific location did you select? _____
 - c. What is the latitude and longitude of your location? _____

Use the flat map view and change to the anthrome layer. Select the year 2000.

3. Select the point in your biome with the highest level of human disturbance. List the Anthromes at this location for each of these years:

1700: _____
1800: _____
1900: _____
2000: _____

Flat Map View

Anthrome Layer



4. Briefly summarize how humans have impacted the environment at this location over time.

5. At this location, record the following:

Anthrome (year 2000): _____

Species Richness: (add reptiles + amphibians + mammals)

Species NOT listed as "Least Concern": Directions for this on the next page

6. Now select the point in your biome with the lowest level of human disturbance. Ideally, it should be a wilderness area, but as close as possible to the last location. Record the following:

Anthrome: _____

Species Richness: _____

Species NOT listed as "Least Concern": _____



Add these up for species richness

To Find "Species NOT Listed as Least Concerned"

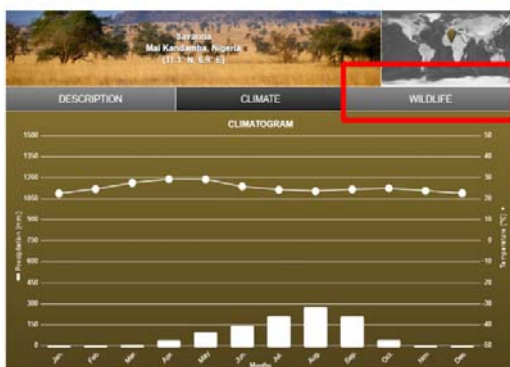
1) Select more in the bottom right corner



3) Click on the three dots next to Threat Level Filter



2) Click on "Wildlife" Tab



4) Add up all Except Least Concern



7. Summarize the differences in species richness and IUCN status of species between the two location. Make a claim for how human disturbance could have impacted biodiversity in your biome. Support your claim with evidence.

How did the number of species in the anthrome with the lowest human disturbance compare to the first anthrome?

Where were there more species listed at some level of risk (NOT least concern)??

8. Click "More" (indicated by an "i" in the lower left of the screen on the biome information)
- Describe the annual precipitation and temperature of this location.
 - Precipitation: what's the average rain fall? Does it happen more in one season?
 - Temperature: what's the average temp? Which seasons are warmer than others?
9. Click on "Description" tab
- What grows in this location?

identify specific types of plants that grow here

10. Click on "Wild Life" tab
- Select EITHER Amphibian, Reptile OR Mammal
 - Click on the "..." next to "Threat Level Filter"
 - Unselect "Least Concern"

Are there any other species that are endangered in the area where your species lives? _____

List the species (all types) that are endangered in this area _____

This image shows the various threat levels as determined by the International Union for Conservation of Nature and Natural Resources (IUCN).



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Go back and finish research on page 4 if you have not done this yet.