

Ecosystems Project

This week, you are going to use all of your knowledge from our life science studies to create a Google Slides presentation about an ecosystem of your choice. You may choose from my list of ecosystems, or pick your own that is not listed here!

Ecosystems:

- Tundra
- Desert
- Grassland
- Wetland
- Forest
- Ocean
- Arctic

On the next page, I've outlined what information I'd like you to put on each slide. You may arrange your slides in whatever order you'd like (they don't have to be in the order they are on the table). Please include text (complete sentences!) and pictures on each slide, and underline any vocab words that you use. ☺

You will not submit this assignment on BLEND.

When you finish, share your project with me on Google Drive at halley.vincent@austinisd.org.

This project is meant to help us review all of the info we've learned over the last few weeks. Remember to use your journal notes, past BLEND pages, and vocab lists for help. ☺ Be creative with your Google Slides and have fun!

Websites for Research:

Check BLEND for some websites you can use to help you research your ecosystem and get info for your presentation.

Extra Challenges:

- If you'd like, complete more than one project and learn about multiple ecosystems from our list. ☺
- **Design Your Own Ecosystem!** Complete this project, but use a make-believe ecosystem that you've created. You get to design every aspect of your ecosystem, from the climate all the way down to the specific organisms that live there. Make sure you design food webs that allow energy to flow through your ecosystem and give all of your organisms the adaptations and behaviors they need in order to survive and thrive together in this environment! Don't forget to name you ecosystem and organisms!

Project Slide Instructions:

Slide Topic:	Info to Include:
Title!	Make a fun title slide for your presentation. Make sure to include your name and the ecosystem you'll be researching. ☺
Location and Climate	Where on Earth is your ecosystem found? Please tell me about the climate in your ecosystem. Does it change as seasons change, or is it pretty consistent all year round?
Biotic/Abiotic Factors	<p>Please list biotic and abiotic factors in your ecosystem.</p> <p style="text-align: center;">GOAL: list 10 of each. CHALLENGE: list 20 of each.</p>
Food Webs	<p>Please find or create a picture of a food web that exists within your ecosystem. Make sure that all of the arrows are pointing the correct direction AND that each organism is labeled. Your food web should include producers, consumers, and decomposers.</p> <p>Then, write 3-5 sentences to explain the flow of energy through your food web. What is the primary source of energy for your food web?</p>
Food Chains	<p>Pick ONE food chain from your food web to focus on. This food chain should include a producer, an herbivore, and omnivore, a carnivore, and a decomposer.</p> <p>This slide should include a picture of your chosen food chain, with labels, and any other fun facts you want to include. ☺</p>
Organism Spotlights (5 slides total)	<p>You will use your Organism Spotlight slides to give me info about each of the organisms in the food chain you chose to focus on. Each organism should have its own slide that includes the following info:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Is this organism a producer, herbivore, omnivore, carnivore, or decomposer within your food chain? <input type="checkbox"/> Tell me about this organism's habitat. Where does it live within the ecosystem? <input type="checkbox"/> Is this organism predator or prey? Tell me what other organisms prey on this one, and/or what organisms does this one hunt? <input type="checkbox"/> List at least 2 adaptations that this organism has that helps it survive in its environment. Are these adaptations structural or behavioral? Why are these adaptations needed? <input type="checkbox"/> List 2 specific structure that this organism has and tell me about their functions. (Remember- structures can have more than one function!) <input type="checkbox"/> Tell me about an inherited trait and an instinct that this organism has. Then, tell me about a behavior they might need to learn in order to survive. <input type="checkbox"/> Include at least one other fun fact about this organism. ☺ <p>CHALLENGE: you may include more than 5 Organism Spotlight slides if you'd like! Feel free to spotlight other organisms from your food web.</p>
...anything else!	<p>Feel free to include anything else you'd like to in your slides or presentation. Here are some ideas of other things you can include-</p> <ul style="list-style-type: none"> • Fun videos • More pictures • Comics or artwork • Fun facts or other information that you find interesting