# **Ecosystem Ecology Prezi**

# **Questions to answer:**

1. What are the major factors that determine the terrestrial ecosystem that exists in a particular location?
2. What are the major factors that determine the marine ecosystem that exists in a particular location?
3. How does the first law of thermodynamics effect the movement of matter and energy through an ecosystem?
4. Explain what limiting factors are and how they influence the productivity of an ecosystem.
5. Explain the “10% rule”, how it affects the trophic structure of the ecosystem, and why it is a bit of an oversimplification.
6. Explain what all nutrient cycles have in common.

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# **Things you should make sure you understand:**

* How all planetary and cosmological systems described in this presentation contribute to climate and the locations of major biomes across the world.
* How to use the 10% rule to estimate productivity, and trophic efficiency of a particular ecosystem.
* The specific processes at work in the water, carbon/oxygen, nitrogen, and phosphorous nutrient cycles.
* Compare productivity of different ecosystems/biomes. What would you measure as a scientist to determine an ecosystem’s productivity?