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**Topic:** Ecosystem Ecology Worksheet

**Summary:** Students are introduced to ecosystem stability and factors that contribute to stability. Students are also introduced to the different types of terrestrial ecosystems.

### **NGSS Standards:**

*HS-LS2-2*. Use mathematical representations to support and revise explanations based on evidence about factors affecting biodiversity and populations in ecosystems of different scales.

HS-LS2-6. Evaluate claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.

Time Length: 20 minutes

Prerequisite Knowledge: ecosystem stability, biodiversity

## **Materials:**

Class notes or textbook or online textbook

- <a href="https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/6.9/primary/lesson/terrestrial-biomes-bio/">https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/6.9/primary/lesson/terrestrial-biomes-bio/</a>
- https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/6.1/primary/lesson/ecosystems-bio/
- <a href="https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/6.24/primary/lesson/biodiversity-bio/">https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/6.24/primary/lesson/biodiversity-bio/</a>
- <a href="https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/1.7/primary/lesson/organization-of-living-things-bio/">https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/1.7/primary/lesson/organization-of-living-things-bio/</a>

## **Procedures:**

1. Tell the students which section they are to use in the textbook. Students are then going to read the section and answer the questions on the worksheet.

#### **Accommodations:**

Give students with a modification IEP less questions to answer in the matching sections. Students with an IEP can take the handout home if they need extra time.

## **Editable DOCX File and Answer Key:**

Available at <u>www.ngsslifescience.com</u>

Name:		Row:
	Data	Dania d.

Date:	Period:

# Ecosystem Ecology Worksheet

1.	What is an ecosystem?
2.	What does an ecosystem have that is not represented in an ecological community?
3.	What does it mean for an ecosystem to be resilient?
4.	Name at least two concepts that help an ecosystem be stable?
5.	What happens when the conditions in an ecosystem change?
Qu	estions 6-16 are about terrestrial biomes
6.	Which biome has frozen topsoil?
7.	Circle One: How much biodiversity is in the above biome? Low Medium High
8.	Which biome has low-growing plants and some of the largest herbivores?
9.	Circle One: How much biodiversity is in the above biome? Low Medium High
10.	Which biome is made up of a coniferous forest?
11.	Circle One: How much biodiversity is in the above biome? Low Medium High
12.	Which biome is made up of a forest of trees that drop their leaves in the winter and
	re-grow the leaves in the spring?
13.	Circle One: How much biodiversity is in the above biome? Low Medium High
14.	Which biome receives fewer than 30 cm of rain per year and is hot?
15.	Circle One: How much biodiversity is in the above biome? Low Medium High
16.	Which biome has the highest biodiversity?
Wl	hat are the nine levels of biological organization in order from biggest to smallest?
	7. Largest: 22
18	
19	
20	
2	1