

Name **Answers!** Date \_\_\_\_\_ Period \_\_\_\_\_

## Ecology Review Worksheet #1

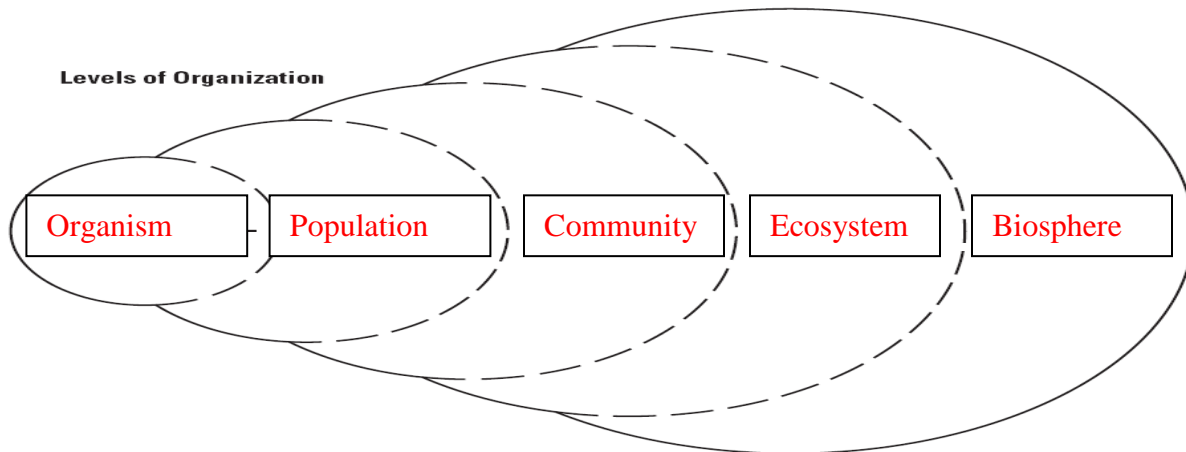
**Main Idea:** Ecologists study environments at different levels of organization.

Write a description of each level of organization in the table. Also, provide an example for each level.

Level	Description	Example
1. Organism	Anything with all of the characteristics of life.	Deer
2. Population	The amount of one species that live in an area	# of deer
3. Community	All of the different species that live in an area	People + dogs + deer
4. Ecosystem	Living and nonliving things in an environment	Forest
5. Biosphere	Part of the earth that supports life	Earth

Fill in the diagram below with the Levels of Organization studied in Ecology.

Use the terms from the table above.



**Main Idea:** An ecosystem includes both abiotic and biotic factors. Producers provide energy for other organisms in an ecosystem.

Complete the following sentences with the correct term from the list below

autotrophs	eating	nonliving	abiotic	living	temperature	producers
moisture	plants	animals	biotic	consumers	heterotrophs	nonliving

6. All ecosystems are made up of **living** and **nonliving** components.

7. **Biotic** factors are living things, such as **plants** or **animals**.

8. **Abiotic** factors are nonliving things, such as wind, **Temperature**, or **moisture**.

9. **Autotrophs** are organisms that get their energy from **nonliving** resources, meaning they make their own food. These organisms are also called **Producers**.

10. **Heterotrophs** are organisms that get their energy by **eating** other organisms. These organisms are also called **consumers**.

11. Why are producers so important to an ecosystem? **They are the base of the food chain!**

**KEY CONCEPT: Food chains and food webs model the flow of energy in an ecosystem.**

Choose the correct term from the box below to fit each description.

carnivore	herbivore	secondary consumer	decomposer	detritivore
omnivore	primary consumer	tertiary consumer	trophic levels	

12. I eat only plants. I am a(n) **herbivore**.
13. I eat only other animals. I am a(n) **carnivore**.
14. I eat both plants and animals. I am a(n) **omnivore**.
15. I eat dead organic matter. I am a(n) **detritivore**.
16. I break down organic matter into simpler compounds. I am a(n) **decomposer**.
17. I am the first consumer above the producer level. I am a(n) **primary consumer**.
18. I am a carnivore that eats herbivores. I am a(n) **secondary consumer**.
19. I am a carnivore that eats other carnivores. I am a(n) **tertiary consumer**.
20. The levels of nourishment in a food chain are called **trophic levels**.
21. How is a food web different from a food chain?

**A foodweb is a set of interconnected food chains. It includes multiple feeding options.**

22. Label the four tiers of the energy pyramid with the correct trophic level (**producers, primary consumers, secondary consumers, and tertiary consumers**). Choose an ecosystem. Research what types of plants and animals live in your chosen ecosystem. **Fill in the energy pyramid with what might exist with that ecosystem.**

