

Ecology Review Worksheet #1

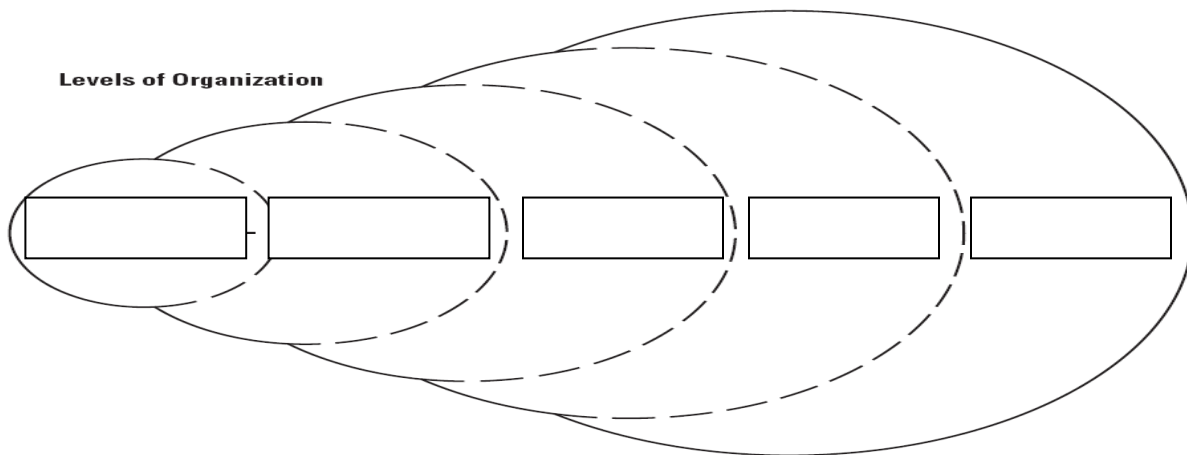
Main Idea: Ecologists study environments at different levels of organization.

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

| Level | Description | Example |
|---------------|-------------|---------|
| 1. Organism | | |
| 2. Population | | |
| 3. Community | | |
| 4. Ecosystem | | |
| 5. Biosphere | | |

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 _____ and _____ components.
7. _____ factors are living things, such as _____ or _____.
8. _____ factors are nonliving things, such as wind, _____, or _____.
9. _____ are organisms that get their energy from _____ resources, meaning they make their own food. These organisms are also called _____.
10. _____ are organisms that get their energy by _____ other organisms. These organisms are also called _____.
11. Why are producers so important to an ecosystem? _____

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 | detrivore |
| omnivore | primary consumer | tertiary consumer | trophic levels | |

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

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.**

