

7th Grade Science Book E Environmental Science

Chapter One: Interactions of Living Things

Section Two: Living Things Need Energy (pg 8-13)

For each word listed below, write the word on a piece of notebook paper, underline or highlight the word and then write the definition after the word. (Students are encouraged to take the definition from the actual text because that is the definition that will be used on quizzes and tests).

producers photosynthesis consumers herbivore
carnivore omnivores scavengers decomposer
food chain food web energy pyramid

Answer each of the following questions on a piece of notebook paper, in a complete sentence, restating the question in your answer. Failure to follow these rules will result in the student having to rewrite the assignment to earn their points.

1. What do ALL living things need to survive?
2. What are the three groups of organisms?
3. Compare and contrast a producer and a consumer.
4. Name three herbivores.
5. Name three carnivores.
6. Name three omnivores.
7. Give two examples of decomposers.
8. Why are simple food chains rare?
9. What happens to energy that is not immediately used?
10. What are the two main food webs on Earth?
11. Why are energy pyramids always larger at the bottom?
12. What happens if the organism occupying the top of the pyramid disappears?
13. The plants in each square meter of an ecosystem obtained 20,810 calories of energy from sunlight per year. The herbivores in that ecosystem ate all the plants but obtained only 3,370 calories of energy. How much energy did the plants use?
14. Are consumers found at the top or bottom of an energy pyramid? Explain your answer.