

Life Science Grade 4 Evaluation

Teacher Section

Overview Kids will demonstrate how well they understand important key concepts from this section.

Suggested Time 45-60 minutes

Objectives Students will be tested on the key concepts of Life Science:

- All organisms need energy and matter to live and grow.
- Plants are the primary source of matter and energy entering most food chains.
- Producers and consumers (herbivores, carnivores, omnivores, and decomposers) are related in food chains and food webs, and may compete with each other for resources in an ecosystem.
- Decomposers, including many fungi, insects, and microorganisms, recycle matter from dead plants and animals.
- Living organisms depend on one another and on their environment for survival.
- Ecosystems can be characterized in terms of their living and nonliving components.
- For any particular environment, some kinds of plants and animals survive well, some survive less well, and some cannot survive at all.
- Many plants depend on animals for pollination and seed dispersal, while animals depend on plants for food and shelter.
- Most microorganisms do not cause disease and many are beneficial.
- Plants and animals have both internal and external structures that serve various functions in growth, survival, behavior, and reproduction.
- Different sense receptors are specialized for particular kinds of information, which may be then processed by the animal's brain. Animals are able to use their perceptions and memories to guide their actions.

Students will also demonstrate these principles:

- Design and build a working terrestrial and aquatic ecosystem.
- Understand how bacteria can be helpful and useful in everyday life.

Lab Preparation

1. Print out copies of the student worksheets and quiz.

Lesson

The students are taking one test today, which is a quiz. The quiz takes about 20 minutes, and you'll find the answer key to make it easy to grade.

Homework Assignment

Students will also be completing a homework assignment. You'll find this in the next setion.

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Student Worksheet

Overview Today you're going to take a quiz and also complete a homework assignment. You're going to take the written quiz first.

Lab Test & Homework

After the quiz, you can get to get started on your homework assignment. The assignment is due next week, and half the credit is for creativity and the other half is for content, so really let your imagination fly as you work through it.

Choose one:

- a. Design a garden and label its parts. Your drawing must include: plants, insects, decomposers, as well as water, light and nutrients. Use arrows to show the transfer of energy. You must also include a detailed written description of at least one page, explaining the science that is happening in the garden.
- b. Write a short story or skit about bacteria from the perspective of being blamed for diseases. You'll read this aloud to your class.
- c. Make a poster that teaches one of the main concepts of the food chain (including the producers and consumers) you enjoyed most. When you're finished, you'll use it to teach to a class of younger students and demonstrate the principles that you've learned.