

Life Science Grade 6 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:

- Know how to demonstrate how to use and care for a microscope, how to mount slides, and how to record data viewed through a microscope.

Students will also demonstrate these principles:

- Understand how to determine the parts and functions of plants
- The effects of osmosis
- The components of an eco system
- Characteristics of worms
- Knowledge of the cell and transport mechanisms

Materials (one set for entire class)

- compound microscope
- slides
- cover slips
- 1 wet mount specimen, such as pond water
- tweezers
- an eye dropper
- celery stalk
- 2 slices of potato
- two glasses of water
- salt

Lab Preparation

1. Print out copies of the student worksheets, lab practical, and quiz.
2. Have a tub of the materials in front of you at your desk. Kids will come up when called and demonstrate their knowledge using these materials.

Lesson

The students are taking two tests today: the quiz and the lab practical. The quiz takes about 20 minutes, and you'll find the answer key to make it easy to grade.

Lab Practical

Students will demonstrate individually that they know how to model certain parts of the body using scientific principles. While other kids are waiting for their turn, they will get started on their homework assignment. You get to decide whether they do their assignment individually or as a group.

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Student Worksheet

Overview: Today you're going to take two different tests: the quiz and the lab practical. You're going to take the written quiz first, and the lab practical at the end of this lab. The lab practical isn't a paper test – it's is where you get to show your teacher that you know how to do something.

Lab Test & Homework

1. Your teacher will call you up so you can share how much you understand about life science and scientific equipment (hint: like a microscope). Since science is so much more than just reading a book or circling the right answer, this is an important part of the test to find out what you really understand.
2. While you are waiting for your turn to show your teacher how much of this stuff you already know, you get to choose which homework assignment you want to complete. The assignment is due tomorrow, 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. Write a short story or skit about a carnivorous plant from the perspective of the plant itself. You'll read this aloud to your class.
 - b. Make a poster that teaches the main concepts of handling and using a compound microscope. When you're finished, you'll use it to teach to a class in the younger grades and demonstrate each of the principles that you've learned.
 - c. Write and perform a poem or song about osmosis. This will be performed for your class.