

Life Science 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 the eye works, and demonstrate common eye problems.
- Understand how to determine lung capacity, monitor heart rate, and several other measurable functions of the body.
- Demonstrate how the body can be modeled by simple machines and joint models.

Students will also demonstrate these principles:

1. Collecting and interpreting data from an experiment
2. Making valid observations based on their actions in lab

Materials (one set for entire class)

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| • a few strands of human hair | • pencil |
| • string | • uninflated balloon (one for each student) |
| • index cards | • double convex lens |
| • brass fasteners | • double concave lens |
| • scissors | • spoon |
| • tape | • tennis ball |

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.

Life Science Grade 7 Evaluation

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 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 life science. 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 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. Write a short story or skit about cells from the perspective of inside a particular area of the body. You'll read this aloud to your class.
 - b. Make a poster that teaches the main concepts of the eye. This can be about how the eye works, different parts of the eye, problems that occur with the eye, and improvements you'd make to the eye if you were designing a new one. 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 DNA. This will be performed for your class.