

Life Science Grade 7 Lab Practical

Teacher's Answer Key

This is your chance to see how well your students have picked up on important key concepts, and if there are any holes. Your students also will be working on their homework assignment as you do this test individually with the students.

Materials:

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

Lab Practical: Ask the student *Note: Answers given in italics!*

You will demonstrate two of the following:

1. Design an experiment that will measure the humidity in the air using the materials provided.
 - a. *Refer to "Hair Hydrometer" experiment, where the hair is gently stretched out and we can measure if the hair changes length after a period of time using a lever arm indicator.*
2. Using the image above, find a first, second and third class level in the human body and describe how each works using the materials provided.
3. Using the materials provided, demonstrate answers to the following: *Refer to "Eyeballoon" experiment*
 - a. How does your eye work like a camera?
 - b. Where are the light receptors located, and what do each do?
 - c. How can you tell if an eye is near-sighted? Far-sighted?

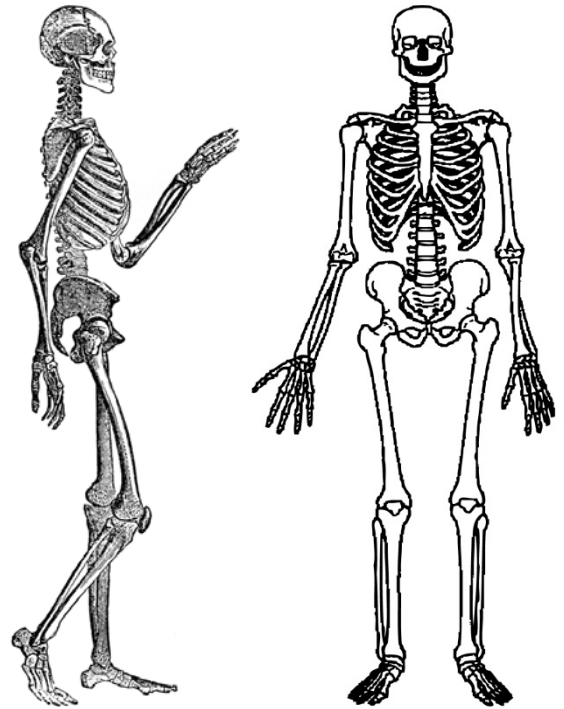
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Student Exam

This is your chance to see how well your students have picked up on important key concepts, and if there are any holes. Your students also will be working on their homework assignment as you do this test individually with the students.

Materials:

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



Lab Practical: Ask the student to complete two of the following:

1. Design an experiment that will measure the humidity in the air using the materials provided.
2. Using the image above, find a first, second and third class level in the human body and describe how each works using the materials provided.
3. Using the materials provided, demonstrate answers to the following:
 1. How does your eye work like a camera?
 2. Where are the light receptors located, and what do each do?
 3. How can you tell if an eye is near-sighted? Far-sighted?