

Earth Science Grade 3 Lab Practical

Teacher's Answer Key

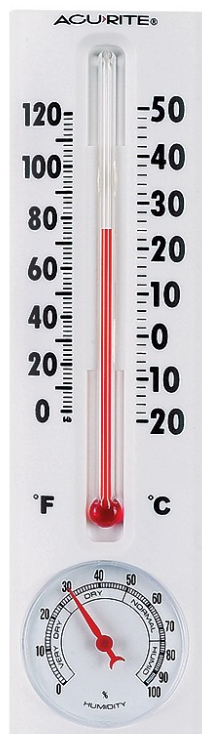
This is your chance to see how well your students have picked up on important key concepts, and if there are any holes. Your students also will be working on their homework assignment as you do this test individually with the students.

Materials:

- One glass of warm water
- One glass of cold water
- One glass of ice cubes

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

1. Present the ice and water to the student, and ask the student to make water transform from a gas to a liquid using only these materials. *Student will pour cold water into the glass of ice and wait for the water vapor in the air surrounding the glass to condensate on the outside of the glass. You can ask them why there's water on the outside of the glass in addition to identifying the three states of matter.*
2. Show the student the following instruments and ask:
 - a. What is the current temperature in °C and °F? *(78°F, 24°C)*
 - b. Show what temperature water will boil at. *(212°F or 32°C)*
 - c. The image below on the right is a barometer, a lot like the one we made in class. The water inside is sealed, but the water in the pipe is open to the atmosphere. When does the water travel up the pipe, when the atmospheric pressure is increasing or decreasing? *Decreasing, or lower pressure*
 - d. Does the barometer indicate calm or stormy weather is coming soon? *Storm!*



Earth Science 1 Lab Practical

Student Worksheet

This is your chance to show how much you have picked up on important key concepts, and if there are any holes. You also will be working on a homework assignment as you do this test individually with a teacher.

Materials:

- One glass of warm water
- One glass of cold water
- One glass of ice cubes

Lab Practical:

1. Design an experiment using the materials provided to demonstrate how to make water transform from a gas to a liquid.
2. For following instruments pictured below:
 - a. What is the current temperature in °C and °F?
 - b. What temperature water will boil at?
 - c. The image below on the right is a barometer, a lot like the one we made in our experiments. The water inside is sealed, but the water in the pipe is open to the atmosphere. When does the water travel up the pipe, when the atmospheric pressure is increasing or decreasing?
 - d. Does the barometer indicate calm or stormy weather is coming soon?

