

Earth Science Grade 3 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 weather as expressed in this Earth Science Unit. The concepts are listed below:

- The weather changes from day to day, but trends in temperature or of rain (or snow) tend to be predictable during a season.
- Energy from the sun reaches the Earth through radiation.
- The color of a material will affect how much energy is absorbed and reflected by the object. Dark objects absorb more energy than lighter objects; lighter objects reflect more energy than darker objects.

Students will also demonstrate these principles:

- How to measure rainfall, wind speed, temperature, and atmospheric pressure.

Materials (one set for entire class)

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

Lab Preparation

1. Print out copies of the student worksheets, lab practical, and quiz.
2. Have 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 use the scientific instruments that we've created over the course of this unit. They will also be able to demonstrate why this important for scientists to study. 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 Earth Science and how it works. 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 weather from the perspective of the water molecule. You'll read this aloud to your class.
 - b. Make a poster that teaches the main concepts of weather. 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 the seasons on different planets. This will be performed for your class.