

Rain Gauge Lesson Plan

Teacher

School

rain gauge

Date

SLE # ESS.8.3.10: Construct and read a

Objectives:

Content: I will construct and read a rain gauge.

Language: I will use the terms rain gauge and construct while explaining and testing my rain gauge.

Assessment: The teacher will be able to assess the students' understanding throughout the activity by listening for key terms during the construction of the rain gauge. The teacher may also choose to assess the students based on their completed rain gauge and also any charting and/or graphing of the rain data.

Technology/Materials: empty 2 liter or 16-20 oz bottle that has had the top cut off, sharpie, ruler, hole puncher, string, tape

Vocabulary: rain gauge, construct, explain

Bloom's: ☐ Remembering ☐ Understanding ☐ Applying ☐ Analyzing ☐ Evaluation ☐ Creating

Questions: Describe how you would measure rain. Give some examples of different weather instruments. Which weather instrument would you choose to measure rain? Explain how the shape of a rain gauge makes it a great instrument for measuring rain. How would you compare the amount of rain and snow? Design and create your own rain gauge.

High Yield Strategies: ☐ Identifying similarities & Differences ☐ Summarizing & Note Taking ☐ Cooperative Learning
☐ Reinforcing Effort & Providing Recognition ☐ Setting Objectives & Providing Feedback ☐ Generating & Testing Hypotheses
☐ Cues, Questions & Advanced Organizers ☐ Homework & Practice ☐ Nonlinguistic Representations

Instructional Strategies:

Set: Activate prior knowledge by asking questions listed above. Show the students the different materials and ask them to devise a way to create a rain gauge.

Model: Walk around the room showing a picture of an actual rain gauge and a completed handmade rain gauge.

Guided Practice/Strategies: Help instruct the students of how to properly draw measurement lines on the bottles.

Intervention Strategies: Remodel as needed, sample pictures, peer assistance

Accommodations & Modifications (IEPs) Drawing diagrams, use sample pictures for explanation

Independent Practice/Activities: Students will construct the rain gauges and decorate as they see fit. Then, class will determine best placement of rain gauges around the school to measure rainfall. Students will then record and graph data over a period of time to be determined by the teacher.

Enrichment Activities: Students could make a 10-day forecast of weather based on their rain data.

Closure: Students will write the instructions on how to construct and read a rain gauge. After collected the data, the students can then write about any problems related to the collection of data and what they would do differently.

Homework: Have students collect data for several days.