Topic: Identifying and Reading Lab Equipment

Teacher Information

Time Allowance

45 min.

Background

Students will test meteoroid samples and plant samples to make sure they are safe for use. Testing these samples requires using several pieces of basic lab equipment. Students will practice reading basic laboratory equipment and recording data on a data log sheet similar to what will be used during their mission at the Challenger Learning Center.

Materials

6 graduated cylinders 6 beakers electronic balance

rulers

6 general items to be massed (pencil, paper clip, scissors, etc...)

Preparations

1. Prior to students arrival, set up stations according to the list below:

Station 1 graduated cylinders Station 2 electronic balance

Station 3 beakers Station 4 rulers

- 2. Fill graduated cylinders and beakers with varying levels of water and label them A-F. (You can use food coloring to color the water to make it easier to see.)
- 3. Create an answer key.
- 4. Divide Students into pairs or have them work individually.
- 5. Students should rotate through the stations recording their findings and data.

Identifying and Reading Lab Equipment

Student Worksheet

Read the following

You will rotate from station to station in order to record the necessary data.

Station 1

1	Drove	mintura	۰£	_	graduated	
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2.	Read the volume of the	e following graduated cylinders.	Label you answers
	with mL for milliliters.	Example: 10 mL	

A.			
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Station 2

3. Draw a picture of an electronic balance.

4. Find the mass of the items. Label you answers with g for grams. Example: 10 g

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Identifying and Reading Lab Equipment Student Worksheet (continued)

Station 3

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5.	Draw a picture of a	beaker.		
6.	Read the volume of		ers. Label you a	nswers with mL for
	milliliters. Example:		_	
	A	В	C	;
	D	E	F	
Stati	ion 4			
7.	Draw a picture of a	ruler.		
8.	Measure the follow answers " for inches			
	Floor tile			
	Brick			
	Notebook			
	File Cabinet			

Identifying and Reading Lab Equipment Student Worksheet (continued)

Questions

1.	Why is it important to label each answer with its corresponding form of measurement?
2.	List some things you would measure with a graduated cylinder.
3.	List some things you would measure with a beaker.
4.	Why would a scientist use a graduated cylinder instead of beaker?
5.	Why do astronauts take measurement readings in centimeters and not inches?