

E.T. - A LOCAL WAY OF LEARNING

Title: MEASURE YOUR WORLD

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Grade Level: 3-4

Concepts: 2. Ecosystem

Disciplines: 1.Math
2.Science
3. Art

Objective:

Students will apply measuring skills in the activities outlined and make some observations requiring language and art skills in a natural setting, with such information properly recorded in the spaces provided for each.

Rationale:

A math textbook is not the most exciting instructional tool. Learning math skills in the outdoors can be a pleasant diversion. And such indirect contact with things in nature may be equally rewarding.

Materials Need:

Each student should have a ruler, meter stick or tape measure.

Directions:

Have the students work individually except where two people are needed to use a tape measure. You may have to split the group and have half working on Activity #1 and half on Activity #2. It is also possible to divide into thirds with one group working on each of the first three activities.

Do Activity #4 in an open space where each student can have sufficient room to act out his number selection. Make sure you have all the numbers in a bag before you leave. Activity #5 can be done anywhere. The students may want to go back to find an object to draw or they may want to go to a particular scene, tree or area to draw their picture. When they finish Activity #5, ask them to guess the length of time from the start of Activity #1 to the present. Tell them the correct time. Check to see who was the closest.

MEASURE YOUR WORLD

Name

Student Worksheet

1. Use a ruler or tape measure to measure the following in both inches and centimeters.

OBJECT	INCHES	CENTIMETERS
A stick		
Your shadow		
Three different leaves	1.	
	2.	
	3.	
Height of two-plants	1.	
	2.	
Shadow of a tree		
Distance between two trees		
Two things you'd like to measure		
	1.	
	2.	

2. Walk from your class to the cafetorium. Count your steps. How many did you take?

Measure the length of your step.

Ask three friends how many steps they took. Write down their names and number of steps in the box

Name			
Number of steps			

Who took the most steps?

Who took the least steps?

What is the difference between the most and the least?

MEASURE YOUR WORLD

5. Draw a picture of something really small you saw today and a picture of something really big. Write a sentence about each picture.

Something Small

Something Big

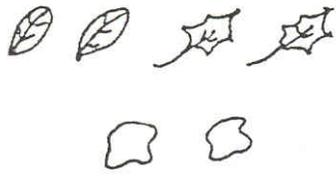
6. Guess how much time your walk today took you.

Ask your teacher how long the walk really was.

E.T.

MASURE YOUR WORLD

3. Make sets of natural objects. Draw your own pictures. Write two addition and two subtraction sentences for each.

<p>EXAMPLE:</p> 		
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4+2 = 6 6-2 = 4

2+4 = 6 6-4 = 2

4. Draw a number from the sack, don't tell anyone what it is. Try to act out the number with your body. The others in the group will try to guess the number.

For each number, list a natural object which has that number of parts. For example, 6 six legs on an insect.

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|----|-----|
| 1. | 6. |
| 2. | 7. |
| 3. | 8. |
| 4. | 9. |
| 5. | 10. |