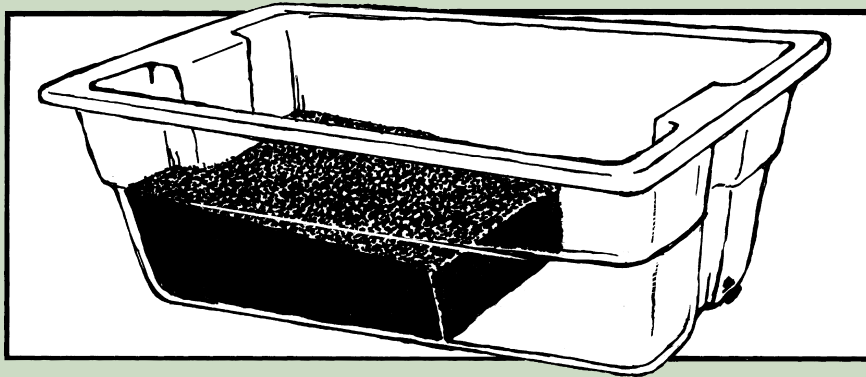


### Student Instructions for Setting Up a Stream Table Investigation

1. Use the black china marker to write a “4” (the lesson number) on your cylinder. Then label the cylinder with your group letter or color.
2. Place the large pad on top of your work space. Place the small pad on the floor under the edge of the work space. Make sure the absorbent sides of the pads are up.
3. Mix the soil in the stream table.

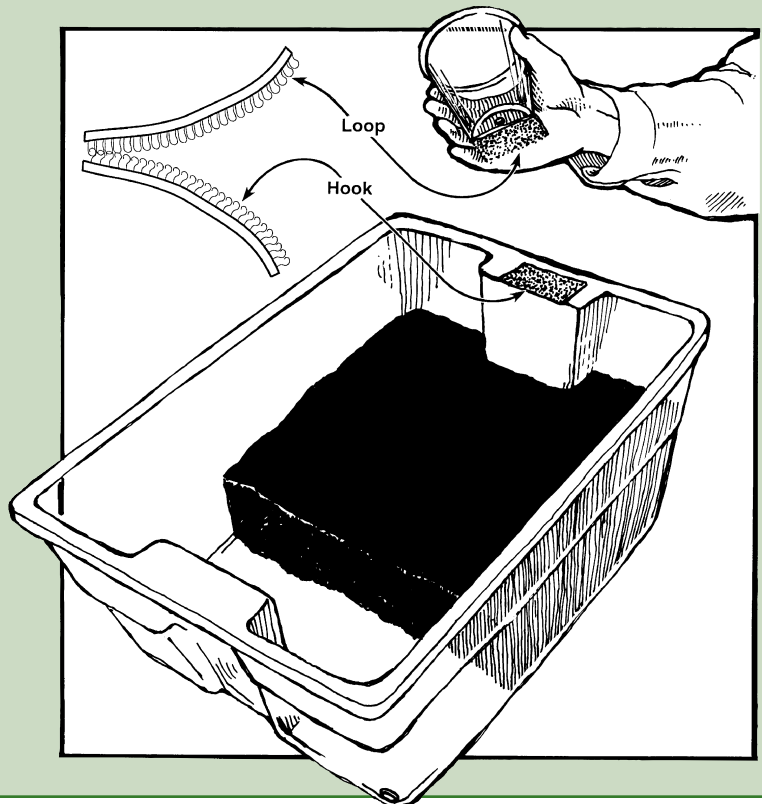


4. Using your plastic spreader, push the soil away from the hole. Bulldoze your soil into a single block that angles slightly up toward the end of the box.

5. Position your stream table on your work space so the end of the box with the drain hole hangs over the edge.

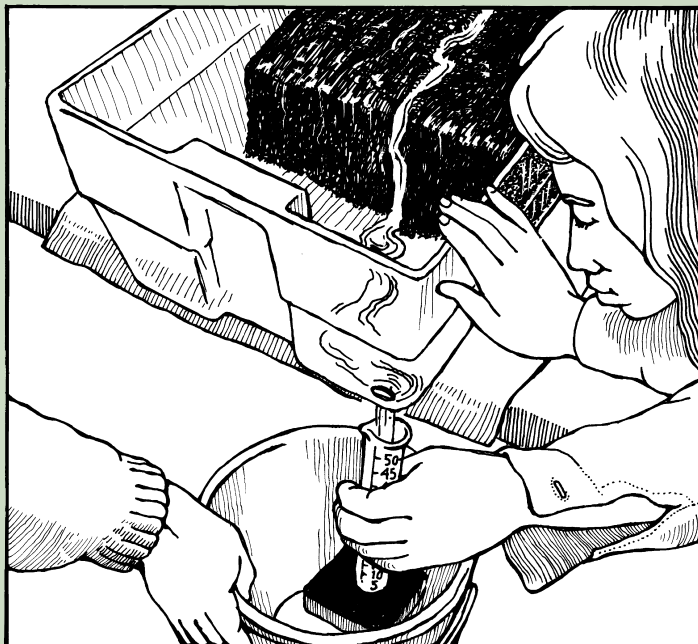
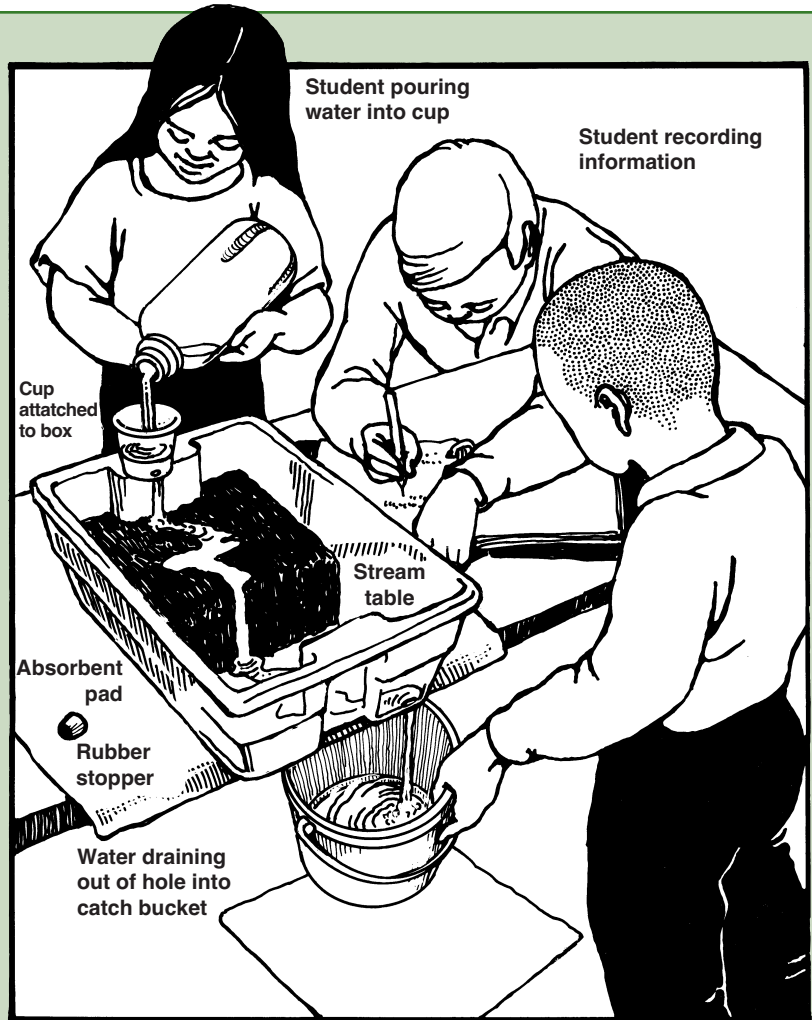
6. Remove the cap from the soda bottle.

7. Attach the Ultra Velcro® on the cup to the Ultra Velcro® on the stream table. Rock the cup back and forth to join the two pieces of Ultra Velcro®. It may feel a little loose and the cup may tilt when filled with water, but this is normal.



8. When your group is ready, remove the rubber stopper. Hold the bucket directly under the drain hole.

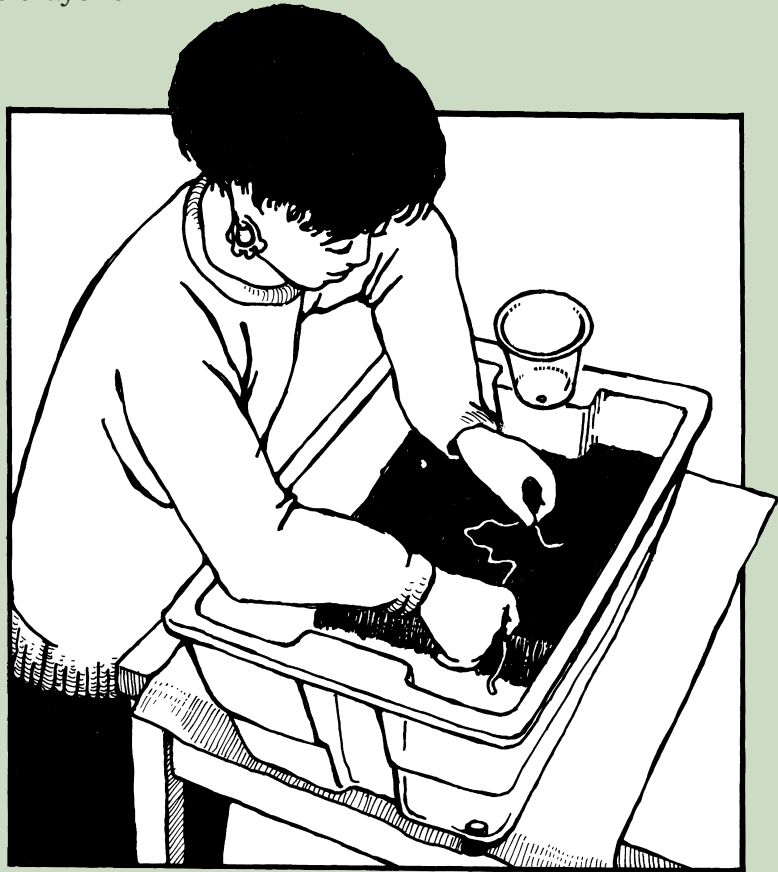
9. Pour the water slowly into the *cup*. Try to keep the water up to the line on the cup at all times. Do not touch the soil once you have started to pour.



10. When you have poured out nearly all the water, collect a sample of runoff. To do this, place the empty cylinder under the drain hole. Fill the cylinder with runoff to the 50-ml mark. Keep the cylinder in a safe place. You will observe it throughout the rest of the unit.

11. Observe and discuss with your group the soil and water in your stream table and cylinder. Record all observations on **Record Sheet 4-A: Comparing Streams**. Do the following steps:

- On your record sheet, describe or draw a picture of your stream. Use crayons and label your picture.
- Measure the length of your stream. Lay the string along the stream, matching its shape. With a permanent marker, mark the end of the stream on your string. Now remove the string and use a ruler to measure the distance from the end of the string to the mark.
- Measure the width of your stream.
- Measure the width of the soil deposited at the end of the stream with a string or ruler.
- On Record Sheet 4-A, draw a picture of your cylinder of runoff.



**Record Sheet 4-A**

Name(s): \_\_\_\_\_

Group: \_\_\_\_\_

**Comparing Streams**

**Directions:** Complete only the first column during Lesson 4. You will complete the other columns during Lessons 10 and 13.

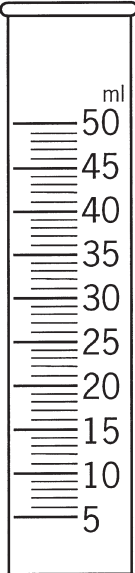
	Lesson 4	Lesson 10	Lesson 13
Date			
Description or drawing of stream			
<b>Measurements (in cm)</b>			
Length of stream			
Width of stream			
Width of soil dropped at the end of the stream			
Other observations			

Name(s): \_\_\_\_\_

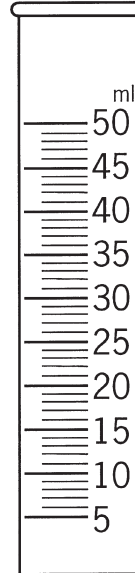
**Comparing Streams, *continued***

1. What does the cylinder of runoff look like today? Color the soil and water in the cylinder.

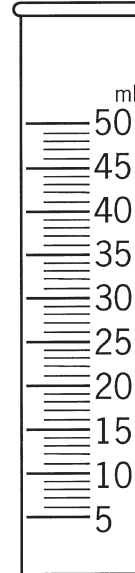
**Lesson 4**



**Lesson 10**

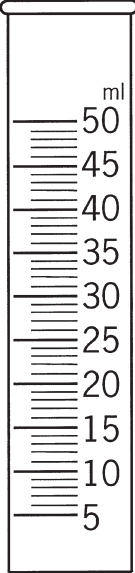


**Lesson 13**

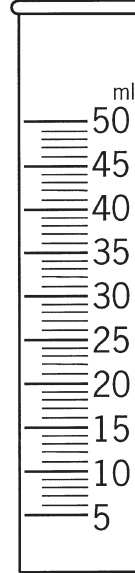


- 2. Talk with your group. Predict what the cylinder will look like tomorrow.
- 3. What does the cylinder of runoff look like after it sits for a day? Color the soil and water in the cylinder.

**Lesson 4**



**Lesson 10**



**Lesson 13**

