



## The Water Cycle Building Instructions



### Materials

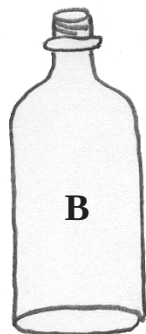
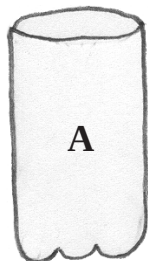
- three two-liter bottles with caps
- a drill with a large (1/4" or so) drill bit
- pliers
- drywall screw or old style compass
- two 30 cm strips of cotton shirt, sock, or rag

### Before you begin:

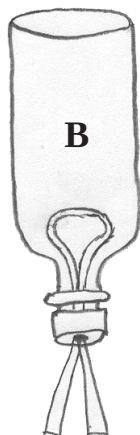
Have an adult drill a 1/4" hole in one of the three bottle caps.

**1.** Remove labels from bottles.

**2.** Cut Bottle A just below the upper curve.

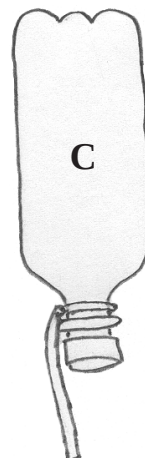


**3.** Cut Bottle B just above the curved bottom.

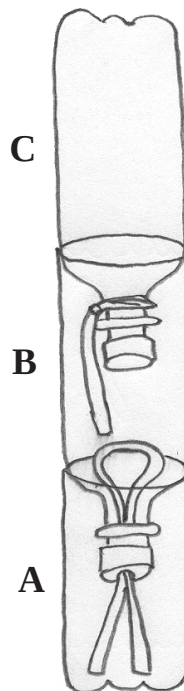


**4.** Place the predrilled cap on Bottle B. Insert a 30 cm looped strip of rag, sock, or old shirt, so about 10 cm hangs down from the cap.

**5.** Tie a 30 cm looped strip of rag, sock, or old shirt around the neck of Bottle C so one end hangs down about 5 cm.



**6.** Assemble.





## The Water Cycle Filling Instructions

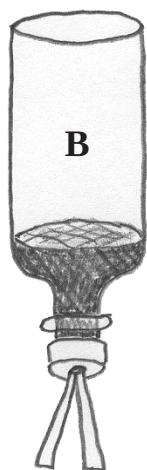
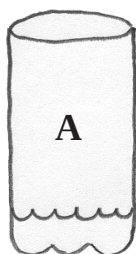


### Materials

- soil
- hand shovel
- water
- measuring cup
- grass seed

**1.** Wet both strips of cloth. This will allow water to travel along the cloth through capillary action.

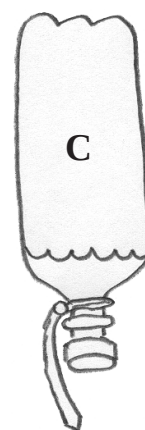
**2.** Add about 250 ml of water to Bottle A. This will be your source of water for the cycle.



**3.** Fill Bottle B with enough premoistened soil to cover the loop of the string (about 250 cc or a little more than 1 cup)

**4.** Sprinkle a bottle cap of grass seed into the soil in Bottle B.

**5.** Press the remaining bottle cap into the soil to act as a collection point (pond, lake, etc.) for water.



**6.** Trim the wick hanging from Bottle C like a necktie so that it hangs over the "pond."

**7.** Fill Bottle C with 200 ml of water and cap it tightly.

**8.** Assemble the model and place where it can receive light for growth.

