

# Food Chain Chambers



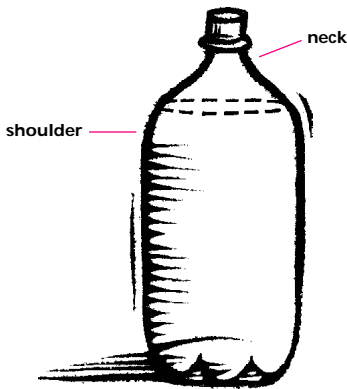
## Materials for four chambers

- 8 two-liter soda bottles
- 4 soda bottle caps
- utility knife
- hammer
- nail
- permanent marker
- 3 spiders
- 4 twigs
- banana slices

## Directions for One Chamber

1 Remove the labels from the bottles.

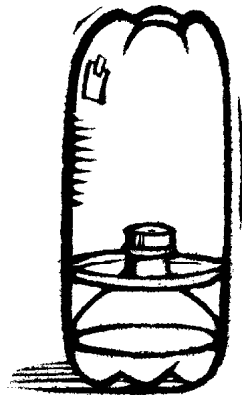
2 Cut bottle #1 between the shoulder and the neck—about 2.5 cm (1 in.) above the shoulder. Remove the top part.



5 Fit the top of bottle #1—cap pointing up—into the bottom of bottle #2. This will be the fruit fly chamber.

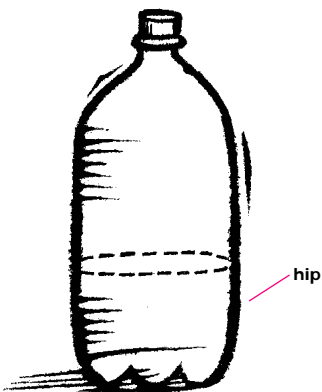


6 Invert the remainder of bottle #1 over the fruit fly area, and fit it into the base. This is the spider area. Slice a little trap door into which you can place a spider (and then tape it closed).



3 Unscrew the cap from the top of bottle that you just cut. Punch a hole in the cap using a hammer and nail. The hole should be about 2 cm (a little less than 1 in.) in diameter. Screw the cap back on.

4 Cut the second bottle 2.5 cm (1 in.) above the hip.



## Make a total of four chambers.

Vary the four chambers as follows:

- Chamber 1, the control chamber, includes a spider, fruit, and access for fruit flies to enter (two small holes cut into the feet of bottle #2).
- Chamber 2 contains a spider and access for fruit flies, but no fruit.
- Chamber 3 contains a spider and fruit but no access for fruit flies.
- Chamber 4 contains fruit and access for fruit flies, but no spider.



Control Chamber 1