DATASHEET

7

STUDENT WORKSHEET



Layering Liquids

You have learned that liquids form layers according to their densities. In this lab, you'll discover whether it matters in which order you add the liquids.

MATERIALS

- liquid A
- liquid B
- liquid C
- beaker or other small, clear container
- 10 mL graduated cylinders (3)
- 3 funnels





METHOD

Make a Prediction

1. Does the order in which you add liquids of different densities to a container affect the order of the layers formed by those liquids?

Conduct an Experiment

- **2.** Using the graduated cylinders, add 10 mL of each liquid to the clear container. Remember to read the volume at the bottom of the meniscus. Record the order in which you added the liquids.
- **3.** Observe the liquids in the container. Sketch what you see in the space to the left. Be sure to label the layers and the colors.
- **4.** Add 10 mL more of liquid C. Observe what happens, and write your observations below.
- **5.** Add 20 mL more of liquid A. Observe what happens, and write your observations below.

Analyze Your Results

6. Which of the liquids has the greatest density?

Which has the least density?

