

## Measuring Liquid Volume with the Graduated Cylinder

### Purpose

To develop skill in measuring with the graduated cylinder  
To use the metric system in measuring volume

### Materials

red, blue, and yellow food coloring  
water  
3 beakers  
6 test tubes

test tube stand  
50-mL graduated cylinder  
labels for test tubes

### Procedure

1. Label each test tube A, B, C, D, E, or F.
2. Fill three beakers with water. Add a few drops of food coloring to each beaker so that you have one beaker of red water, one of blue water, and one of yellow water.
3. Into test tube A measure 19 mL of red water.
4. Into test tube C measure 18 mL of yellow water.
5. Into test tube E measure 18 mL of blue water.
6. From test tube C measure 4 mL and pour the 4 mL into test tube D.
7. From test tube E measure 7 mL and add it to test tube D. Mix.
8. From the beaker of blue water measure 4 mL and pour it into test tube F. Then from the beaker of red water measure 7 mL and add it to test tube F. Mix.
9. From test tube A measure 8 mL of water and pour it into test tube B. From test tube C measure 3 mL and add it to test tube B. Mix.

### Observations and Conclusions

Complete the data table below by listing the final colors in each test tube. Give the total amount of water in each test tube.