

LIQUID VOLUME LAB

Name: _____ Date: _____ Period: _____

I. Ask a Question: What will be the results if you carefully measure and mix red, blue, and yellow colored liquids together in different combinations?

II. Form a Hypothesis: Make an educated guess. State it here. _____

III. Test the Hypothesis: Carefully follow these procedures.

Part I: Use the large graduated cylinder for all measurements.

Between each measurement, rinse the graduated cylinder with clean water.

1. Arrange 6 test tubes in order; A, B, C, D, E, & F. upright in the test tube rack.
2. Fill a large beaker with water. This water is to rinse the graduated cylinder between measurements.
3. The large plastic beaker is for the used rinse water.
4. Measure and pour 31 ml of **red** liquid into test tube A.
5. Measure and pour 30 ml of **yellow** liquid into test tube C.
6. Measure and pour 27 ml of **blue** liquid into test tube E.
7. Place the small beakers away, do not pour the remaining liquid out.

Part II: Use the small graduated cylinder for all measurements.

Between each measurement, rinse the graduated cylinder with clean water.

1. Measure and pour 8 ml of liquid from test tube C into test tube D.
2. Measure and pour 4 ml of liquid from test tube E into test tube D.
3. Measure and pour 8 ml of liquid from test tube E into test tube F.
4. Measure and pour 9 ml of liquid from test tube A into test tube F.
5. Measure and pour 5 ml of liquid from test tube A into test tube B.
6. Measure and pour 10 ml of liquid from test tube C into test tube B.

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IV. Analyze the Results: Using a large graduated cylinder, measure the amount of liquid in each test tube and record in the table below. Also indicate the correct color in the table below.

Test Tube	Color of Liquid	Amount of liquid (ml)
A		
B		
C		
D		
E		
F		

V. Draw Conclusions: Answer the following questions with complete sentences.

1. What are 2 things you can learn or practice during this lab? _____

2. If your hands are stained, what does that say about how you handled the liquids? _____

3. Why could this lab be called the Rainbow Lab? _____

4. What could have happened if you did not measure the liquids correctly? _____

5. What, if anything, could you have done better during this lab? _____
