BASIS header:

Color Challenge Lab!!! (20 points)

OBJECTIVE:

In this lab you will practice using _____, _____, and

_____ to measure out different _____ of colored water!

The different _____ and _____ of colored water will produce a variety

of colors! (6 points)

MATERIALS NEEDED PER GROUP:

1) Three beakers with colored water (~25 mL of each color – red, blue, and yellow)

2) One graduated cylinder

3) One pipette

4) Six test tubes labeled A, B, C, D, E, and F

5) Test tube rack

READ THE PROCEDURE ON THE FOLLOWING PAGE BEFORE YOU DO YOUR EXPERIMENT!!!!!!

PROCEDURE:

1. Measure 17 mL or RED water from the beaker and pour into test tube A.

2. Measure 21 mL of YELLOW water from the beaker and pour into test tube C.

3. Measure 22 mL of BLUE water from the beaker and pour into test tube E.

4. Measure 5 mL of water from test tube A and pour it into test tube B.

5. Measure 6 mL of water from test tube C and pour it into test tube D.

6. Measure 8 mL of water from test tube E and pour it into test tube F.

7. Measure 5 mL of water from test tube C and pour it into test tube B.

8. Measure 2 mL of water from test tube A and pour it into test tube F.

9. Measure 4 mL of water from test tube E and pour it into test tube D.

10. Record the final color and the final volume of the test tubes in the data table below:

Test Tube	Final Color	Final Volume (in mL)
A		
B		
C		
D		
E		
F		

DATA TABLE IS WORTH 12 POINTS

You must use math to calculate the final volume of the test tubes. Do NOT use the graduated cylinder to determine the final volume of your test tubes. Show your calculations below. SHOWING YOUR CALCULATIONS IS WORTH 2 POINTS!