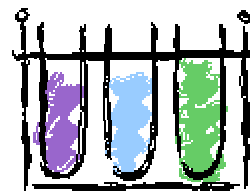


Rainbow Lab



LP: _____ Date _____

Objectives:

1. to develop skills measuring chemicals with a graduated cylinder.
2. to practice using the metric system.
3. to test precision and ability to follow directions.
4. to practice lab safety procedures.

Procedure: Part 1 :

1. Label 6 test tubes in order: **A, B, C, D, E & F.**
2. **Fill a beaker half full with water.** Use this to rinse your graduated cylinder and test tubes.
3. The second beaker is for contaminated waste water.
4. Into test tube **A**, measure **25 mL** of **RED** liquid.
5. Into test tube **C**, measure **17 mL** of **YELLOW** liquid.
6. Into test tube **E**, measure **21 mL** of **BLUE** liquid.

Part 2:

1. From test tube **C**, measure 4 mL and pour into test tube **D**.
2. From test tube **E**, measure 7 mL and pour into test tube **D**. Swirl.
3. From test tube **E**, measure 4 mL and pour into test tube **F**.
4. From test tube **A**, measure 7 mL and pour into test tube **F**. Swirl.
5. From test tube **A**, measure 8 mL and pour into test tube **B**.
6. From test tube **C**, measure 3 mL and pour into test tube **B**. Swirl.
7. SAVE your results . **Measure** the contents of each test tube and record how many mL were found in each test tube.
8. Answer questions.

Data : Table 1 : Test Tube Results

Test Tube	Color of Liquid	Amount of Liquid mL
A		
B		
C		
D		
E		
F		
	Total liquid Test Tubes A-F	mL



Analysis/Results:

1. Name the colors that you created.

2. How many mL of liquid were in each test tube at the **start** of this lab?

3. Why is it important to follow directions **exactly**?

4. What would have happened if your measurements were not correct?

5. Look at your hands. Do **you** have any **stains** on your hands? If so, those stains represent chemicals that would be on your skin right now!

6. How many **TOTAL** mL of liquid did you have at the **end** of the lab? _____ **mL**
How many **should** you have? _____ **mL**

7. What are some **reasons** why you may have more or less than when you started?

Conclusion: 2-3 sentences on what you learned.

