

SCIENCE BASICS

LIQUID MEASUREMENT LAB

Materials

Test tubes
Graduated cylinders
Beakers
Pipettes

Skills

Accuracy w/ liquid measurement
Careful lab equipment handling

Procedures - Part 1:

1. Place 6 test tubes in rack, numbered from 1 to 6
2. **Fill a beaker half full with water.** Use this water to **rinse** your graduated cylinder and test tubes after measuring liquids
3. The second large beaker is for **contaminated** waste water. (shared)
4. Into test tube (TT) one, measure **25 ml** of **RED** liquid.
5. Into TT three, measure **17 ml** of **YELLOW** liquid.
6. Into TT five, measure **21 ml** of **BLUE** liquid.
7. Visually record the initial set up on graph paper.

Procedures - Part 2:

1. From TT 3, measure **4 ml** and pour into TT 4.
2. From TT 5, measure **7 ml** and pour into TT 4. Swirl gently.
3. From TT 5, measure **4 ml** and pour into TT 6.
4. From TT 1, measure **7 ml** and pour into TT 6. Swirl gently.
5. From TT 1, measure **8 ml** and pour into TT 2.
6. From TT 3, measure **3 ml** and pour into TT 2. Swirl gently.
7. Visually record your results. Use graph paper and colored pencils.
8. Measure the contents of each test tube and record in the data table how many ml were found in each.
9. Answer follow-up questions...

TT	Color of Liquid	Amount of Liquid (ml)
1		
2		
3		
4		
5		
6		
	Total Liquid in TT 1-6 =>	ml

Science Basics

Liquid Measurement

Analysis Questions:

Restate question in a complete sentence answer

1. How many ml of liquid were in each test tube after **Part 1** of this lab?
2. How many **total ml** after **Part 1** of the lab?
3. How many **total ml** of liquid at the **end** of the lab?
4. How many **should** there be at the end?
5. List at least 3 reasons why you may have more or less than when you started...
6. Look at your hands and papers. Do you have any stains on your hands/papers? If so, these stains represent chemicals that would be on your skin right now. How could this have been avoided? (or how did you avoid getting stains)
7. Why is it important to follow directions **exactly**?
8. Write a 3-4 sentence conclusion about what you have learned regarding liquid measurement and lab equipment.