Colour Challenge – Measuring liquids

Aim: To accurately measure liquids

Materials:

* 3 beakers with coloured water- 25 ml of each colour (red, blue, and yellow)
* 1 measuring cylinder (25 ml or 50 ml)
* 1 eyedropper (plastic pipette)
* 6 test tubes labelled A, B, C, D, E, and F

Method:

(1) Measure 17 ml of 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**.

Results:

Write down your observations and measure the final amount in each test tube

|  |  |  |
| --- | --- | --- |
| Test Tube | Colour | Final amount (mL) |
| A |  |  |
| B |  |  |
| C |  |  |
| D |  |  |
| E |  |  |
| F |  |  |

Discussion:

1. How accurate were your measurements?
2. What went wrong?
3. What is the name of the curve shape formed by the water in a container?
4. State which results were qualitative and which were quantitative?

Conclusion: Write one sentence relating it back to your aim