

Rainbow in a glass

You can get a colourful density column super easy with this method...

What you'll need:

- ⇒ Sugar
- ⇒ Water
- ⇒ Food colouring
- ⇒ Tablespoon
- ⇒ 5 glasses or clear plastic cups

Instruction:

1. Line up five glasses. Add 1 tablespoon (15 g) of sugar to the first glass, 2 tablespoons (30 g) of sugar to the second glass, 3 tablespoons of sugar (45 g) to the third glass, and 4 tablespoons of sugar (60 g) to the fourth glass. The fifth glass remains empty.
2. Add 3 tablespoons (45 ml) of water to each of the first 4 glasses. Stir each solution.
3. Add 2-3 drops of red food colouring to the first glass, yellow food colouring to the second glass, green food colouring to the third glass, and blue food colouring to the fourth glass. Stir each solution.
4. Fill the last glass about one-fourth full of the blue sugar solution. Carefully add some green solution above, do this by putting a spoon in the glass, just above the blue layer, and pouring the green solution slowly over the back of the spoon. If you do this right, you won't disturb the blue solution much at all. Add green solution until the glass is about half full.
5. Now layer the yellow solution above the green liquid, using the back of the spoon. Fill the glass to three-quarters full.
6. Finally, layer the red solution above the yellow liquid. Fill the glass to the top!



What's happening ?

This project uses coloured sugar solutions made at different concentrations. The solutions will form layers, from least dense, on top, to most dense (concentrated) at the bottom of the glass.

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