

Big Idea



Density



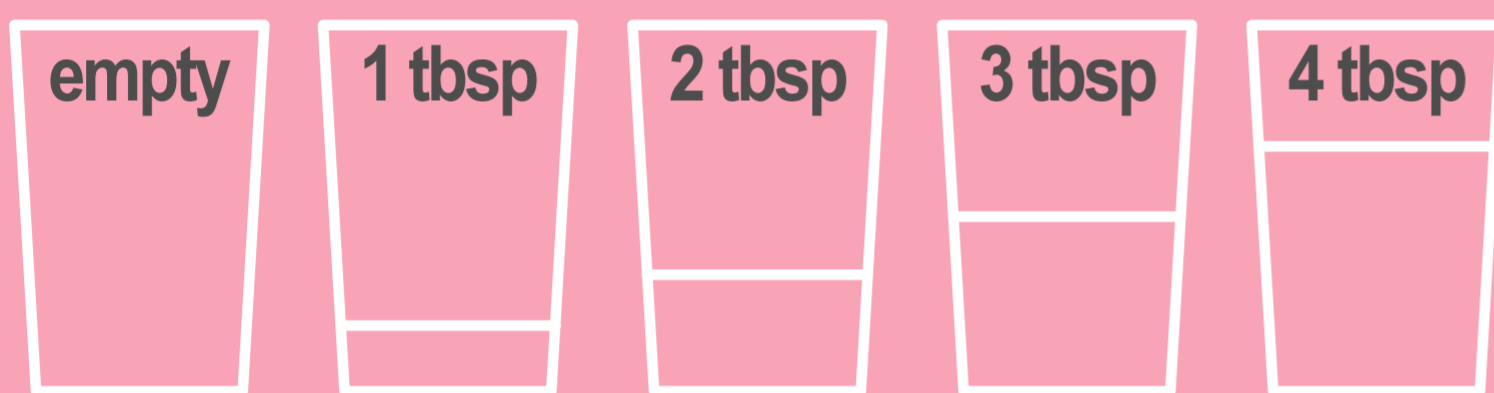
Materials & Equipment

- 10 Tablespoons of sugar
- 12 Tablespoons of water
- 4 Colours of food colouring
- 1 spoon
- 5 Clear cups (glass or plastic)
- 1 Tablespoon



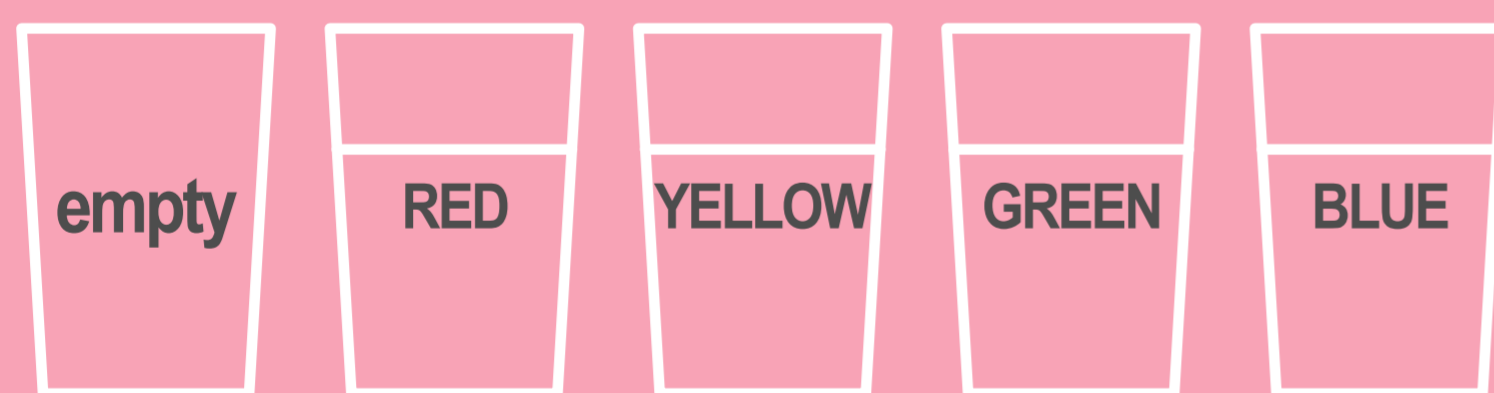
Procedure

1. Line up the 5 cups, add the following amount of sugar to each. 1 tablespoon (tbsp) is 15g



2. Add 3 tbsp (45mL) of water into each cup with sugar

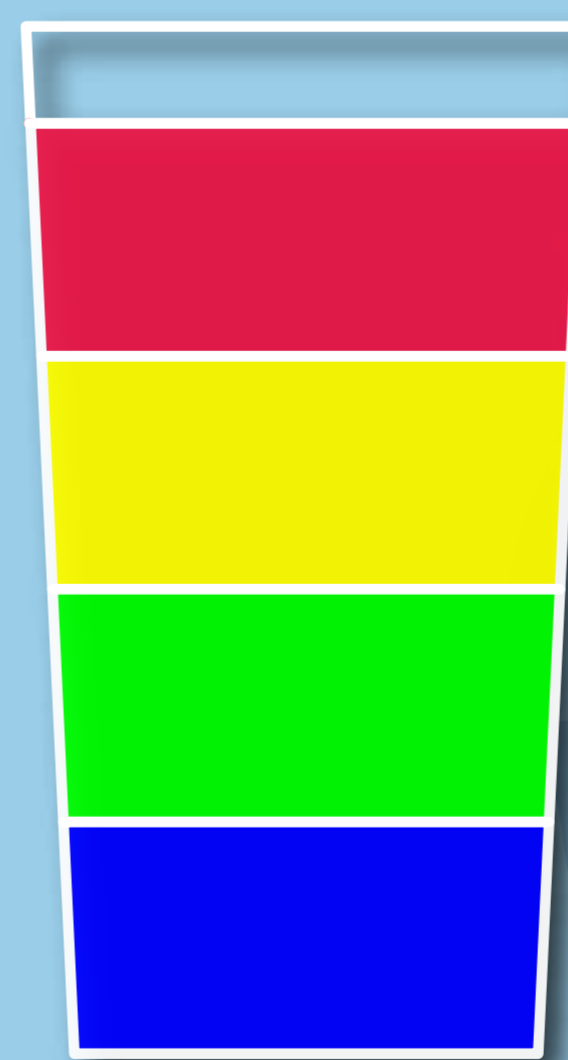
3. Add 2-3 drops of the below food colouring, and stir



4. Fill the empty cup $\frac{1}{4}$ full of blue sugar solution
5. Carefully layer the green solution on top of the blue. To keep them from mixing, place a spoon in the glass just above the blue and pour slowly onto the back of the spoon. Fill the cup $\frac{1}{2}$ full.
6. Add the yellow solution above the green solution (use the back of the spoon). Fill the cup $\frac{3}{4}$ full
7. Add the red solution above the yellow liquid. Fill the cup to the top.

What Happened?

The sugar solutions each had a different density level.



The layers were created by stacking the most dense solution on the bottom (highest amount of sugar) to the least dense solution as the top layer (lowest amount of sugar)

