

THE HAMILTON ACADEMY

FUN ACTIVITY

Surprising Sugar sugar water density tower

LESSON ACTIVITY Age group: 7 - 11 years

Equipment

You will need: a large test tube, yellow, green, blue and red food colouring, 5 small clean jars, water, a measuring jug, granulated sugar, a spoon for stirring, a syringe or pipette.



Method

- 1 Pour 5 identical amounts of water into 5 jars.
- 2 Add a few drops of food colouring to each jar, making sure you add the same amount to each. Mix red and blue food colouring to make a purple colour.
- 3 Add 2 teaspoons of sugar to the yellow water, 4 teaspoons to the green, 6 teaspoons to the blue, 8 teaspoons to the purple and 10 teaspoons to the red. Stir well until the sugar has dissolved.
- 4 Using a measuring syringe or pipette, add the most dense water, the yellow, to the test tube. Continue to add the rest of the colours in the order of how dense they are: green, blue, purple and, lastly, red. Add exactly the same amount of water each time, and add it very slowly and gently to the surface of the previous colour, as close to the middle as you can.



Result

Record what happens here:

.....

.....

.....

Why do you think this happens?

.....

.....

.....

Draw what happens here: