



# BARNETT SCIENCE WEEK

By Annabel



Barnett House Captain Assembly



# COLOURFUL GLASS

• Apparatus:

✓ Food coloring

✓ Water

✓ 4-6 glasses

✓ Tissues

✓ sugar

✓ Syringe





# METHOD



1. First, add sugar to the glasses: 1<sup>st</sup> cup 5tbsp, 2<sup>nd</sup> cup 3 tbsp, etc.
2. Next, add 60ml of warm water to each cup and stir until all the sugar is dissolved.
3. Then, use food colouring to colour each solution.
4. After that, use a pipette or a syringe to draw some of the solution from the first cup.
5. Then, **SLOWLY** and **CAREFULLY** release the solution from the syringe into the empty cup (aim the point of the syringe at the inside wall of the cup).
6. Next, repeat step 5 until all of the different solutions have been added to the empty cup, making sure that the point of the syringe is aimed at the inside wall of the cup.

Remember to have a tissue with you as you may spill some!

# PREDICTION

Can anyone predict what might happen?

Can you explain why you think this?

Take a second to think of your answer.



# PHOTOS

This is what it should look like:

<https://www.bing.com/videos/search?q=rainbow+in+a+glass+experiment&&view=detail&mid=AF0F9C880645A952D24CAF0F9C880645A952D24C&&FORM=VRDGAR&ru=%2Fvideos%2Fsearch%3Fq%3Drainbow%2Bin%2Ba%2Bglass%2Bexperiment%26FORM%3DHDRSC3>



# CONCLUSION

- When hot water is added to the cup, the sugar dissolves.
- Everything has a different density (mass).
- By keeping the amount of water the same but altering the amount of sugar that is being added to each cup, each cup has a different density.
- Due to their different densities, they won't mix with each other. Instead, they each form their own layer.
- The more sugar there is in the cup, the higher the density.
- The solution with the highest density –the most sugar- will stay on the bottom.
- The solution with the lowest density –the least sugar- will stay on the top.



# THANK YOU FOR LISTENING!

I hope you enjoyed my presentation



Remember to check out the school science page for ideas you can try at home with an adult:

- All the house captain presentations
- All the Year 6 science carousel activities
- Duckling web cam link
- Photos of the decorated classroom doors when they have been completed

Keep calm and stay Barnett