#ExperimentsAtHome

Experiment shared by: Leonie Briggs, Science Teacher at Darton Academy and STEM Ambassador

EXPLODING RAINBOWS
Creating a chemical reaction

You will need:

- Baking soda
- Clear container x 7
- Food colouring
- Spoon
- Vinegar

Instructions:

1. Prepare your clear containers – ideally do this outside on a good day or make sure to use a protective sheet as it's a bit messy!!
2. Add baking soda to each container using a spoon. A small spoonful should do it but this does depend on the size of your container. This experiment works just as well with a small container.
3. Add two drops of food colouring to each container – remember Richard Of York Gave Battle In Vein for your colours of the rainbow so two drops of red food colouring to your first container, orange to the second, yellow to the third, green to the fourth, blue to the fifth, indigo to the sixth and violet to the seventh or the closest colours you have.
4. Squirt your vinegar into the container.
5. The reaction will happen quickly so be sure to watch and enjoy your exploding rainbows.

How it works!	Share your results!
Baking soda and vinegar form a chemical reaction. This chemical reaction produces carbon dioxide gas. This is what causes our rainbows to explode! The carbon dioxide escapes causing it to overflow the container.	We'd love to see photos and videos of you doing the experiment. Please share on Twitter with hashtag #ExperimentsAtHome and tag in @STEM_HUBNMSEY Thank you!

This and other experiments!

You can **view Leonie doing the experiment** on YouTube as part of a recent STEM Ambassadors LIVE event.

Leonie also does lots of wonderful home science experiments on her twitter account – please give her a follow **@MrsBriggsDA**

PLEASE ASK FOR ADULT PERMISSION AND/OR SUPERVISION WHEN REQUIRED.

We hope you have fun!