**Science in the Kitchen**

Not all science requires expensive and hard to find chemicals or fancy laboratories. You can explore the fun of science in your own kitchen. Here are some science [experiments](https://www.thoughtco.com/what-is-an-experiment-607970) and projects you can do that use common kitchen chemicals.

<https://www.thoughtco.com/kitchen-science-experiments-for-kids>

**Rainbow Density Column Kitchen Chemistry**

**Experiment Materials:**

**Sugar, water, food colouring, 5 glasses, tablespoon**

Line up five glasses. Add 1 tablespoon of sugar to the first glass, 2 tablespoons of sugar to the second glass, 3 tablespoons of sugar to the third glass, and 4 tablespoons of sugar to the fourth glass. The fifth glass remains empty.

Add 3 tablespoons of water to each of the first 4 glasses. Stir each solution.

Add 3 drops of red food colouring to the [first glass](https://www.thoughtco.com/glass-composition-and-properties-608351), 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.

Now let's make [a rainbow using](https://www.thoughtco.com/science-projects-photo-gallery-4064201) the different density solutions. Fill the last glass about one-fourth full of the blue sugar solution.

Carefully layer some green sugar solution above the blue liquid. 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.

Now layer the yellow solution above the green liquid, using the back of the spoon. Fill the glass to three-quarters full.

     Finally, layer the red solution above the yellow liquid. Fill the glass the rest of the way.

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**Baking Soda and Vinegar Volcano Kitchen Experiment**

**Experiment Materials:**

**Baking soda, vinegar, water, detergent, food colouring and a bottle**

Fill the bottle most of the way full with warm water and a bit of red food colour

Add 6 drops of detergent to the bottle contents. The detergent helps trap the bubbles produced by the reaction so you get better lava.

Add 2 tablespoons baking soda to the liquid.

Slowly pour vinegar into the bottle. Watch out - eruption time!

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**Egg in a Bottle Demonstration**

**Experiment Materials:**

**Egg, bottle**

**Method 1**: Set a piece of paper on fire and drop it into the bottle. Set the egg on top of the bottle (small side pointed downward). When the flame goes out, the egg will get pushed into the bottle.

**Method 2**: Set the egg on the bottle. Run the bottle under very hot tap water. Warmed air will escape around the egg. Set the bottle on the counter. As it cools, the egg will be pushed into the bottle.