

Here is a simple activity you and your child can engage in at home to keep busy, explore science concepts.

Science is the active exploration and experimentation to discover new and exciting things. Young children are naturally curious about learning. Science for children should encourage

asking questions, looking for answers, and trying new ideas in a positive environment with no fear of failure. Scientific inquiry and discovery fosters children's curiosity and resilience.

It is recommended that activities should always be supervised by an adult.

What you will need:

Baking soda, food dye and vinegar.

A tray – can be a baking tray

Fill a tray with baking soda, and add drops of food colouring.

Use an eye dropper to transfer white vinegar and squirted it onto the colour. (You can use a straw but dipping into the vinegar and covering an end with a finger to create a vacuum. Remove your finger to release the vinegar.

Watch as it fizzes and bubbles.

The fizzing and bubbling is called a 'reaction'. It is what happens when vinegar (acetic acid) and Baking soda (sodium bicarbonate) mix together. When we mix them they form a carbon dioxide gas which rises to the top and makes the bubbles.

This activity can help children to:

- develop dispositions for learning such as curiosity,
- develop a range of skills and processes such as problem solving, inquiry, experimentation, hypothesizing, researching & investigating
- build our vocabulary as we describe happening and share what we think.
- build our concentration and observations skills as we watch the reactions happening.
- exercise our physical fine motor skills as we used the eye dropper to transfer the colouring and the vinegar.
- learn how things can change and react to other things.
- learn science is fun and exciting.

Adults can support children by:

- involving children in making the preparing the experiment
- allowing children to use the droppers and control the experiment (don't do everything for them)
- asking children to explain what is happening and use their imagination
- allowing children to make their own hypotheses (avoid telling them they are wrong)
- discussing things like colour and texture, and what happens when liquids are added



The Kool Beginnings Curriculum supports our educators to implement the Australian Early Years Learning Framework which was developed by industry professionals through government initiatives. The EYLF provides solid theory, principles and strategies for how children best learn and develop. Find out more at koolkidzchildcare.com.au/curriculum