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Juice Color Magic
Stem Activities


Ages: 6-8


Less than 30 minutes


Grownup needed



Witness the magical transformation using vitamin C drinks and iodine solution! When these two liquids mix, you'll observe fascinating color changes. Through this experiment, you'll experience the joy of science whilst understanding the principles behind chemical reactions.

Materials Needed

Iodine solution
Food colouring
3 cups of water
Vitamin C effervescent tablets (or vitamin C drink)
Dropper
Stirring rod



Step-by-step tutorial

Step 1

Dissolve 2 vitamin C tablets in water.



Step 2

Add food colouring to a glass of water and stir well to create coloured water.



Step 3

Using the dropper, add 5ml of iodine solution to the coloured water and mix thoroughly.



Step 4

Add the vitamin C solution to the mixture of iodine and coloured water, and carefully observe the changes in the glass.



Step 5

The cloudy liquid in the glass magically returns to its original appearance after adding the vitamin C drink. Do you know the science behind this?



The Science Behind It:

This is an oxidation-reduction reaction, where iodine solution acts as the oxidising agent and vitamin C as the reducing agent. Vitamin C can make iodine solution colourless because it transforms the coloured iodine (I₂) into colourless iodide ions (I⁻). Just like a magician helping a child remove their coat, the water's colour disappears!