



Bubble Ink

Stem Activities



Ages: 6-8



Less than 30 minutes



Grownup needed



Ever wondered how to reveal hidden messages? In this fascinating experiment, we'll use a bubble solution to write secret words on paper. After drying, we'll dip the paper in water - and voilà! Watch the magic happen as the words reappear.

Materials Needed

Thin coloured paper
Paintbrush
Washing-up liquid
Glass of water
Measuring cup
Tray



Step-by-step tutorial

Step 1

Pour 30ml of water into the glass, add 10 drops of washing-up liquid, and mix well.



Step 2

Using the paintbrush, dip it in the mixed solution and write or draw on the coloured paper.



Step 3

Pour a glass of water into the tray.



Step 4

Once the water marks on the paper have dried, place it in the water. Watch carefully as the invisible writing reappears.



The Science Behind It:

The soap in the bubble solution creates a film on the paper, with thicker layers forming where you write. This film is water-absorbent, and when the paper dries, residue remains more concentrated in the written areas. When placed in water, these areas absorb water differently from the surrounding paper, making the writing visible.