

General

Rainbow Bridge

Background

Students will set up a series of coloured solutions and link them together to demonstrate diffusion.

You will need...

- ✓ 7 × 250 ml beakers of water
- ✓ 7 × coloured dyes (red, orange, yellow, green, blue, indigo, violet)
- ✓ 1 × roll of white paper absorbent tissue paper.

Follow these steps

1. Pour 250 ml of water into each of the beakers and add a coloured dye to each one.
2. Roll up some kitchen paper into a tight roll. Make five of these rolls.
3. Immerse each end of each kitchen paper so that they link up all of the beakers.
4. Wait 15 minutes and observe what happens.

So what happened?

The coloured dye from each of the solutions is absorbed up each sheet of paper. A colourful display of linked bridges is formed between each beaker. The colours start to move past each other and into the other beakers after some time, making new coloured solutions.

What next?

Experiment with more dyes and different solvents and at different temperatures.



Source: <http://www.incrediblescience.com/>