**Demonstrating diffusion in a solution Skill**

**A03.3 Observing, measuring and recording**

1. Fill a gas jar with water. Leave it for several hours to let the water become very still.
2. Carefully place a small crystal of potassium permanganate into the water.
3. Make a labelled drawing of the gas jar to show how the colour is distributed at the start of your experiment.
4. Leave the gas jar completely undisturbed for several days.
5. Make a second drawing to show how the colour is distributed.

You can try this with other coloured salts as well, such as copper sulfate or potassium dichromate.

**Questions**

**A1** Why was it important to leave the water to become completely still before the crystal was put in?

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**A2** Why had the colour spread through the water at the end of your experiment?

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**A3** Suggest three things that you could have done to make the colour spread more quickly.

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