

**SPEEDY RAIN**

Raindrops fall from clouds at an average speed of 14 miles per hour.

# Make a rain cloud in a jar

This simple weather experiment shows you how rain works.

## What you need

- Water
- Tall glass or jar
- Smaller glass or cup
- Blue food colouring
- Shaving foam
- Pipette

## How does it work?

When it is hot, water evaporates from seas, rivers and lakes, and rises into the air. As the water vapour rises it begins to cool and turns back into tiny droplets of liquid. These droplets gradually clump together and form clouds. When the

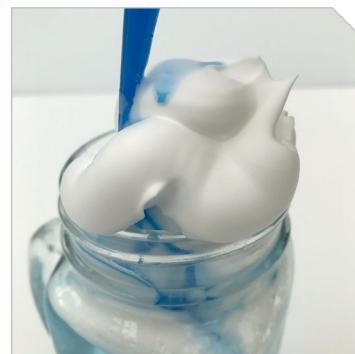
water droplets in a cloud get too heavy to be held up in the air, they fall to the ground as rain. In this experiment, the shaving foam represents the clouds and the water represents the air. The drops of coloured water are "rain".



**1** Fill a tall glass or jar with water. In a separate small glass, mix food colouring with a little bit of water.



**2** Squirt some shaving foam on top of the water in the tall glass until it pokes out just over the rim.



**3** Using a pipette, carefully drop the coloured water on top of your foam "cloud" and watch.

# YOUR SPACE



We'd love to hear how you got on with this month's activities. Email your photos to [hello@science-nature.co.uk](mailto:hello@science-nature.co.uk).

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**ISSUE 45**



Marie enjoyed playing with her home-made maracas

**ISSUE 44**



Amy's hot chocolate bombs cheered her up when she was poorly.

**ISSUE 44**



James's hot chocolate bombs look good enough to eat (or drink!)