## SATURDAY ACTIVITIES



## Layered liquids

Find out how some liquids separate into layers, and how you can make them mix together.

## 144 Three-in-one

1. Put four tablespoons of water in a tall glass and add a few drops of food dye.



2. Add four tablespoons of vegetable oil to the glass. Don't stir the oil and water.



You could try other liquids to see if they separate into layers, too. This picture shows some other possibilities.

## 145 Stir it up

Repeat activity 144, but stir the oil, water and syrup well with a spoon. Leave the mixture for five minutes. What happens?

3. Then, add four

tablespoons of golden

syrup. Don't stir it, and

watch what happens.

When water, oil and syrup are put together, they separate into layers. The layers form according to how dense the liquids are (how heavy and how spread out the particles inside them are – see the "Density" box on page 5). Oil is less dense than water or syrup, so it sits on the top. Syrup is more dense, so it sinks to the bottom.

