

# Scientists... let's investigate!

START



## Predict

What will happen to the uncoated egg when it's submerged in vinegar? What will happen to the egg coated in toothpaste? Using the correct terminology, explain your predictions.



## Method

Label both jars with your names and the date. Add 'toothpaste' to one label and 'no toothpaste' to the other label.

Take the eggs out of the jars and make sure you don't mix them up. Touch the eggs and observe and record any changes.

## Equipment

- ☐ Two uncooked chicken eggs
- ☐ Two identical jars or beakers
- ☐ Labels
- ☐ Measuring cylinder
- ☐ Distilled vinegar
- ☐ Fluoride toothpaste
- ☐ Paper towels
- ☐ Digital camera



Use your fingers to fully coat one of the eggs with a thick layer of toothpaste and make sure there are no gaps. Place the egg on a paper towel and leave it overnight.



Place the jars somewhere safe and leave them overnight.

## Is your test fair?

Submerge your eggs in the same volume of vinegar and store them in the same conditions overnight.



The next day, gently wash the toothpaste from the egg under a cold tap. Carefully place it in the jar labelled 'toothpaste'.



Place your uncoated egg in the jar labelled 'no toothpaste'.

Observe the eggs at regular intervals. Note any changes you see in your prepared table or another recording method.

Use the measuring cylinder to pour 200 ml of vinegar over each egg. Make sure they are fully submerged.

