



WARNING!

Ask a grown-up for help with boiling an egg and when using matches.



SUPER CELL

The yolk of an egg is one giant cell and is one of nature's largest cells.

2 Perform a magic bottle trick

Amaze your friends with this egg-cellent science set-up.

What you need

- A hard-boiled egg
- Glass bottle (neck slightly narrower than the egg)
- Two matches

How does it work?

This experiment is all about air pressure. When you light a match, the flame heats the air inside the bottle. As it heats up, the air expands, increasing the pressure inside the bottle. The air "needs" to take up more space, so it pushes out of the bottle. Watch closely and you might see the egg jiggling about as air escapes around the edges of the bottle's lip. Now there is less air inside the bottle than outside of it, so the pressure outside of the glass is greater than inside. The air pushing on the egg forces it inside the bottle.

- 1 Ask an adult to help you hard boil an egg. Leave it to cool completely then remove the shell.
- 2 Get your grown-up to light two matches. Drop them in the bottle and quickly pop the egg on top, with its narrower end pointing down.
- 3 Stand back and watch in amazement as the egg is magically sucked into the bottle, making the matches go out.



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