Science Challenge from the science Ambassadors, Maiya and Alfie

We would like to set you a science challenge to complete at home. If you are successful, please send in your photos for our science display. There is a small prize for everyone who takes part.

**Bouncy Egg Experiment**

Can you make an everyday chicken egg bounce?

Follow these easy steps or watch the video to help you (see the link).

**You need**

* Eggs
* Clear vinegar
* Sealable container (reduces the smell)
* Water

### What you do

Take an egg and place it in a bowl or plastic container.

Pour vinegar in until the egg is completely submerged.

At this point you will notice the egg is covered in little bubbles.

Leave for between 24 to 72 hours.

Gently lift one of the (now rather delicate) eggs and gently rub away the shell.

The egg shell has nearly dissolved.

The shell should start to come away very easily. You will see a translucent membrane underneath. Be careful, a mere nip, cut, or scratch can break the membrane.

Spot the yolk in the membrane egg.

When all the shell is rubbed away, gently hold the egg under a dripping tap (if you turn the tap on too strong it will burst the egg). Then, hold the egg up to the light and admire your whole and translucent raw egg.

Now for the moment of truth: does your raw and shell-less egg bounce?

Hold it about 10-15cm above the ground or bench top and let go.

<https://www.youtube.com/watch?v=3Iv9eLO0scA>

Further challenge: Can you find a way to colour the membrane?