

School-gen Egg-speriment 2.

Naked Eggs

Ever seen an uncooked egg without its shell? Here's how....



What you will need:

- White Vinegar (you need quite a bit as you must cover each egg in the glass)
- A glass for each egg
- Raw eggs (one for each glass)

The egg-speriment:

1. Set your glasses up on a bench where you can leave them safely for at least 24 to 48 hours.
2. Carefully place an egg in each glass (be careful not to crack them).
3. Pour the White Vinegar into the glass so that it covers the egg completely – don't worry if the egg floats a bit.
4. The hard part – now you must wait !

Check back 24 hours later ...

You should see

1. Bubbles appearing on the outside of the egg.
2. A white frothy scummy layer on the top of the surface of the vinegar .

Now you....

3. Carefully pour the vinegar out and tip the egg into your hand. Don't be tempted to scope the egg out with a spoon – it is very easy to knock the egg and break it as the shell has become very fragile.
4. If your egg isn't totally 'naked' at this stage – place it in a fresh glass and pour another lot of white vinegar over the top and leave for a further 24 hours.

So, what' is actually happening

Egg shell is primarily made up of calcium carbonate. If you soak egg shell in vinegar which is about 4% acetic acid) you start a chemical reaction that dissolves the calcium carbonate shell releasing carbon dioxide gas (those are the bubbles on the shell) . The egg remains intact by the membrane just inside the shell.

More fun ... Make it bounce **WARNING** – this is where it gets messy!!!

1. Find a place where it is easy to clean things up when it gets messy – the kitchen bench or somewhere outside!
2. Try dropping your egg from about 2cms above the bench and watch it bounce.
3. Keep going higher until – yes – it splats.

Grow your naked egg

1. Put the egg in a glass with some food colouring.
2. Watch as the egg soaks up the water and grows bigger.