

# The Naked Egg Experiment!

This could well be my favourite eggsperiment ever, and not just for the chance to make egg jokes. EVERY child should make a naked egg, it's absolutely incredible! (No more egg jokes, I promise!)

## What do I need:

- A glass
- An egg
- White vinegar
- Lots of patience! (Harder to find than eggs and vinegar!)

## How do I do it?

**STEP 1** - Fill your glass full enough with white vinegar so that you can completely cover your egg.

**STEP 2** - Pop your egg in and look closely! See all of those bubbles on the surface - that's what's going to get our egg naked!

**STEP 3** - Wait...

**STEP 4** - Keep waiting...Only kidding! But to get your egg entirely naked will take at least 24 hours! It's well worth the wait though, I promise!

**STEP 5** - Gently! Bounce your naked egg, yes, you read that correctly! Naked eggs bounce! Too much fun. Get started, right away! And remember to come back and read about how it all works too!

## What's going on?

Why does vinegar get our egg naked? Well, the first clue is those little bubbles that you can see! Those bubbles mean there's a chemical reaction going on!

The shell of an egg is made of calcium carbonate ( $\text{CaCO}_3$ ). This reacts with the acid of the vinegar and causes bubbles of carbon dioxide to be given off. Eventually your whole eggshell will have been turned into carbon dioxide gas!

Luckily, under the hard outer shell of your egg is a membrane. You can see through the membrane and even see the yolk moving around. Oh, and naked eggs bounce too!

**WARNING:** This is addictive and if you bounce it too hard you'll need to start over with a new egg! Oh, don't eat your egg! It's basically been pickled in vinegar!

## More Fun Please - Experiment like a real scientist!

- Does it have to be vinegar that you use, what other safe things could you try?
- How high can you bounce your egg before it goes splat?
- How long will your egg last for?

