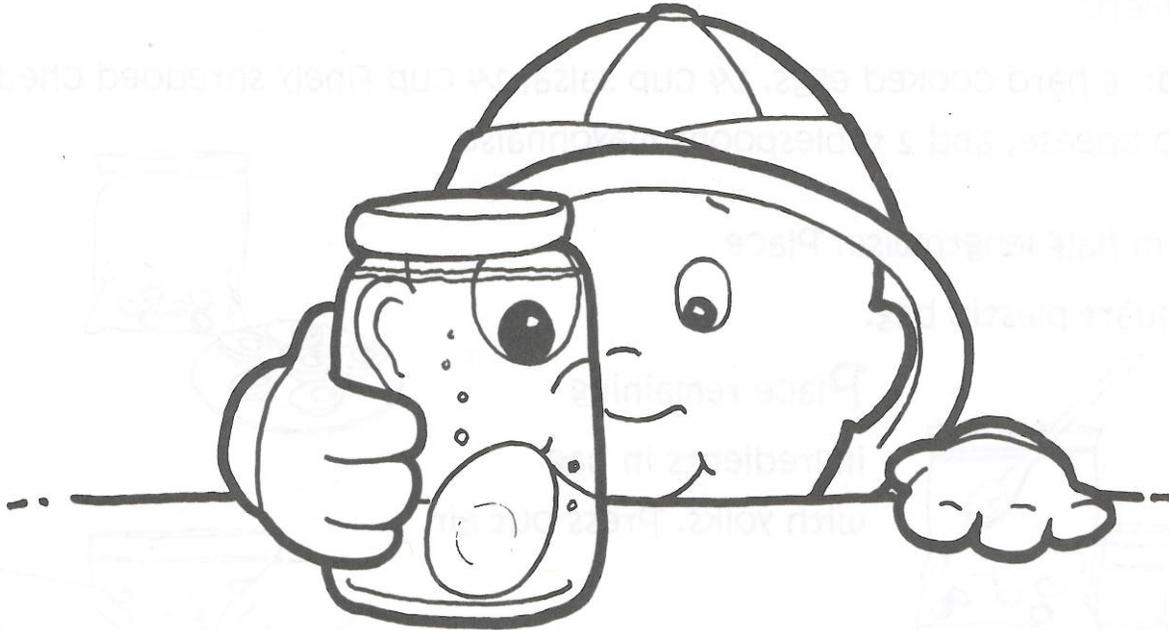


## Eggsperiment Now you see it. Now you don't!

You'll need: Raw egg, a jar with a lid, vinegar

Shelly places the egg in a jar. She covers it with vinegar, replaces the lid, and waits 36 to 48 hours. The shell will dissolve, eggsposing the membrane.



**How does this work?** Tiny bubbles form all over the shell when vinegar is poured over the egg. That's because vinegar is an acid. It reacts with the thin layer of eggshell, which is composed mostly of calcium carbonate. The gas carbon dioxide is produced. Shelly lets her friends touch the egg once in a while so they can feel the changes.

## Eggsperiment Eggsmosis

Sheldon likes to watch the egg eggspand. When the shell has dissolved, he gently removes the egg from the jar with a spoon and rinses it off. He puts it back in the empty jar and covers it with water. By the next day, the egg has grown bigger. If he leaves the egg in the water long enough, it will eggsplode just like a balloon that's been filled with too much air.

**How does this work?** Water moves through the shell membrane by osmosis, causing the egg to swell.