

More Messy Science to do at home.

Eggs!!! We all know that bird eggs whether they be a blackbird or robin will hatch and out pops a new little chick. But you can't put the chick back in the egg. Once the chick is hatched it begins a new life as it grows.

You will need:

- An egg
- Vinegar
- Mug

What you do:

- Pour 1 cup of vinegar into the mug
- Add the egg
- What do you see? (bubbles rising from the egg)
- Leave the egg in the vinegar for one day.
- Remove the egg and feel it.

Here's the science:

- Eggs contain something called "calcium carbonate". This is what makes them hard.
- Vinegar is an acid known as acetic acid.
- When calcium carbonate (the egg) and acetic acid (the vinegar) combine, a chemical reaction takes place and carbon dioxide (a gas) is released. This is what the bubbles are made of.
- The chemical reaction keeps happening until all of the carbon in the egg is used up -- it takes about a day.
- When you take the egg out of the vinegar it's soft because all of the carbon floated out of the egg in those little bubbles.

Now try this:

- Leave the same egg sitting out on the table for another day.
- Now feel it again.
- It's hard!
- The calcium left in the egg shell stole the carbon back from the carbon dioxide that's in the air we breathe.

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There was a man named Nicodemus, and he worked for the church. He was probably pretty important. He had heard about Jesus, and wanted to ask Him some questions about who He was and what He was doing. He came to Jesus at night time and here is what happened...

Video: Jesus and Nicodemus Kids' Bible Story

<https://www.youtube.com/watch?v=T7743kxargw>

Jesus told Nicodemus that he needed to be born again, and Nicodemus had a hard time understanding that. Was he supposed to shrink down and become a tiny baby all over again? How could that happen? Jesus explained that this was a different kind of birth. We have physical bodies and physical birth, but being born again happens through the Holy Spirit.

Jesus meant that faith gives us new life. We become a new creation and have a special kind of “birth” that saves us for ever. Do you know what we have to do to receive this? Nothing! All we have to do is believe it, and trust in God.