Here are some experiments from Izzy's *science notebook...*

Make Bouncing Eggs

(This experiment is best done on a hard floor.)

1. Take a whole egg (uncooked).
2. Leave it in a jug of white vinegar for 2-3 days.
3. Wash or scrub away any shell that is left.
4. Hold the egg 2.5 - 5cm above the ground.
5. Let go, and watch it bounce.
6. See how high you can drop the egg before it splats!

How it works:

The shell of a chicken egg is made of a hard material called calcium carbonate. Vinegar is a type of acid, which reacts with calcium carbonate. Over time, the vinegar dissolves the egg shell, and then gets to work on the thin skin covering the egg under the shell. The vinegar makes the skin tougher, which in turn makes the egg bouncy.
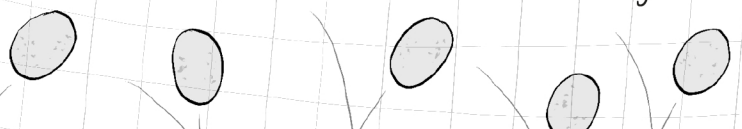
Make EXPLODING slime   by Izzy

What you'll need:

- 118ml bottle of PVA washable school glue
- Baking Soda (also known as bicarbonate of soda)
- Food dye (optional)
- White vinegar
- Contact lens solution

How to make slime:

Squeeze the glue into a bowl. Sprinkle over 1/4 teaspoon of baking soda and mix it in with a spoon. Add a few drops of food dye if you want colour, then add a few drops of the contact lens solution. Mix it together with the spoon. Keep adding a few drops of the contact lens solution at a time, and keep mixing it in, until you have a stringy ball. Then start kneading the slime with your hands until it's less sticky but still stretchy.
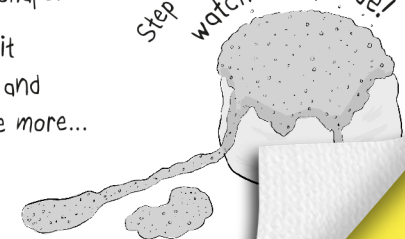
Now make it explode!

Push down the middle of your slime to create a hole and add 1/2 tablespoon of baking soda. Mix it in with your hands. Repeat about 5 or 6 times until the slime starts to stiffen and feel a bit gritty.

Put the slime in a bowl and make it into a volcano shape.

Pour in a bit of vinegar and then a little more...

The more baking soda you add, the better the reaction!

Step back and watch it explode!

Izzy the INVENTOR and the Unexpected Unicorn
with actual experiments!
Zanna Davidson
Illustrated by Elissa Elwick

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