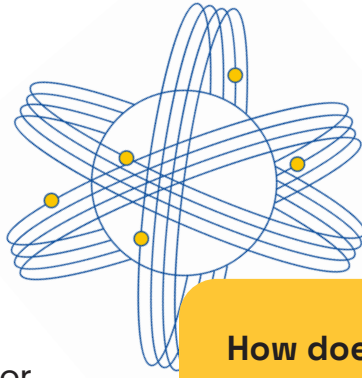


Sticky Slime



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Predict:

Scientists like to make predictions, or hypotheses, before they do experiments. It helps them figure out what to expect and why things happen the way they do.

Have a go at making your best guess using the questions below:

1. What texture do you think the slime will be?
2. Will this texture change after we have played with the slime?

TĪMATA! LET'S GET STARTED!

What you will need:

- White School Glue - *kāpia*
- Baking Soda - *pēkana houra*
- Borax powder or Contact Lens Solution (*must contain boric acid and sodium borate*)
- Water - *wai*
- Food Colouring (optional)
- Confetti, sprinkles or beads (optional)

Instructions:

1. Pour 1 cup of glue (*kāpia*) and ½ tsp of baking soda (*pēkana houra*) into a bowl and mix well.
2. If you want to add sprinkles, confetti, or food colouring (*kara kai*), now is the time! Add them in and mix thoroughly.
3. Slowly add 2 tbsp of contact lens solution or ½ tsp of borax powder and stir until the slime starts to thicken.
4. Use your hands to knead and stretch the slime until it becomes firm. If your slime is too sticky, add a little more contact lens solution or borax—and voilà! Slime!

How does it work?

Slime starts as glue, **made of tiny, wiggly chains called polymers**. Activators like contact lens solution or borax triggers **a reaction called cross-linking**, making the chains stick together. This thickens the glue into stretchy, squishy slime!

Slime is a super strange liquid! Most liquids flow the same way, but slime is different! As **a non-Newtonian fluid**, it changes how it moves.

If you pull slime slowly, it stretches like a liquid. If you squish it fast, it feels more solid! When you stop touching it, it goes back to its oozy, gooey self!

Reflect:

- How did the feeling of the slime change over the experiment?
- Can you think of other types of liquids that change how they flow when you push or shake them?

Extra for experts!

- Try changing up your slime by adding glow-in-the-dark paint to make it glow or glitter to give it some sparkle!
- Experiment with different slime recipes! Test a few and see which one you like best.