SICK SHAMPOO SLIME

5 - 12 yrs | 10 min | Stage 1- 3

Mission

Why does the same slime recipe work with some shampoos but not others?

? Wonder & Predict

I PREDICT THAT.....

- ☐ The fridge slime will be stretchier.
- ☐ The room-temperature slime will be stretchier.
- ☐ Both slimes will be the same.
- ☐ Somthing else: _____

There are no wrong predictions.

WHY DO YOU THINK THAT?

_____

_____

_____

What you will need

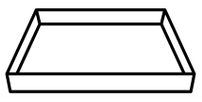
- 100 mL shampoo

- 4 sheets toilet paper

- bowl & spoon

- refrigerator

- food colouring (optional)



- tray to catch spills

Observe & Record

What did you notice?

- ☐ Slime stretched
- ☐ Slime broke easily
- ☐ Slime felt firm
- ☐ Slime felt soft
- ☐ Fridge slime changed
- ☐ Different brands ehaved differently

Investigate

Follow the steps carefully while observing.

1. **Add the shampoo**
   Pour 100 mL shampoo into a bowl.

2. **Add the toilet paper**
   Tear 2 squares of toilet paper into small pieces and mix thoroughly.

3. **Do you think the fridge slime will be:**
   ☐ Stretchier ☐ Firmer ☐ The same

4. **Fridge Test**
   Place one portion in the fridge for 2 hours. Leave one at room temperature.

5. **Compare the Slimes**
   Stretch both slimes and compare them.

6. **Shampoo Challenge**
   Try another shampoo brand.Did it behave differently?
   ☐ Yes ☐ No

What did you observe?

Write or draw what happened to the slimes.

_____

_____

_____

_____

_____

_____

CREATE

What happened?

Fill in the sentences using words from the box.

polymer | fibres. | carbomer | network | temperature | ingredients | stretchier | fridge

When shampoo and toilet paper are mixed, they form a _____ network.

The ingredient called _____ helps create the stretchy texture.

The toilet paper adds tiny plant _____ that help hold the slime together.

The slime stored in the _____ may become firmer and more organised.

Different brands can give different results because they contain different ingredients.

The science behind it

Why does it stretch?

Many shampoos contain an ingredient called carbomer.

Carbomer is a polymer — a very long chain of molecules.

When mixed with water and the tiny fibres from toilet paper, these chains become tangled together to form a stretchy network.

That's what gives the slime its stretchy texture.

Why do some shampoos work better?

Not all shampoos contain the same ingredients.

Some contain more carbomer than others.

Scientists can compare ingredient lists and test different brands to see how the ingredients affect the final slime.

Take it further - Think like a scientist

Choose ONE challenge to investigate. Plan an idea, test it, and record what happened.

Investigation Challenge
Change the temperature

What happens if you use warm vs cold water?

My prediction:

_____

What happened?

_____

_____

Want More Investigations?

Great Investigations Start With Real-World Questions

Every mission inside The Crazy Scientist LAB™ begins with a real question designed to spark curiosity, launch investigation and build scientific understanding.

- Why does this slime recipe work with some shampoos but fail with others?
- Could a spider really grow as big as a car?
- How does a jet engine create enough thrust to lift a plane?
- Could a castle wall stop a cannonball?

CREATE