Cornflour Slime

You will need:

450g cornflour

475ml water

food colouring (optional)

Instructions:

1. Place the cornflour in a large mixing bowl.

2. Slowly pour in the water and mix thoroughly with your hands. You could add a few drops of food colouring if you wish to make colourful slime.

3. Keep mixing until the water and cornflour are fully blended together and the slime has the consistency of honey. You can add more cornflour to make the slime thicker or more water to make it runnier. Now have fun with your slime!

Things You Can Do with This Non-Newtonian Fluid

This slime is a non-Newtonian fluid, which means it acts differently to how we expect a liquid to behave. Try doing these things with your slime and see what happens:

1. In the mixing bowl, punch the slime but withdraw your fist back very quickly.

2. Scoop some of the slime into your hand and roll it into a ball.

Non-Newtonian Fluids

Why can you roll this slime into a ball and punch it to make it harder?

When you mix cornflour in water, the large cornflour particles remain suspended in the water. The slime is thick because, whilst the particles are packed very close together, they can still move past each other. If you stir the liquid slowly, the suspended particles have time to move past each other. However, when sudden pressure is applied, like a punch, the water flows out of the area but the particles do not have time to move away. The cornflour particles momentarily stay packed together and act like a solid until they have time to move away.

Important

Do not pour the slime down the sink when finished as this could block pipes. Instead, spoon the mixture into a food bag, seal it securely and place it in the bin.

Disclaimer

We hope the information on our website and resources is useful. However, some ingredients and/or materials used might cause allergic reactions, so if you have any concerns about your own or somebody else's health or wellbeing, always speak to a qualified health professional. Remember, activities listed within the resource should always be supervised by an appropriate adult.