

## FAMILY SCIENCE ACTIVITY – FRIDAY 8<sup>TH</sup> MAY

### THE SCIENCE OF OOBLECK

<https://www.science-sparks.com/how-to-make-obleck/>

Did you notice that if you make a ball with oobleck or gloop it feels solid, but if you drop the oobleck on the floor it turns liquid again? The slime is a **non – Newtonian fluid** as it doesn't flow like liquids normally do.

<https://www.youtube.com/watch?v=Fnd-2jetT1w>

Cornflour gloop ( oobleck ) is made up of molecules arranged in long chains. When the chains are stretched the liquid will flow, but when you force them together they stick together to form a solid.

### OOBLECK RECIPE

- Cornflour
- Water
- Food colouring – optional
- Ice cube trays – optional
- Mixing bowl
- Colander, funnel and beakers – optional, but great for messy fun!

### INSTRUCTIONS FOR MAKING CORNFLOUR GLOOP

- Fill a cup with cornflour and add to the bowl
- Add water very slowly mixing with your hands, until you get a sticky, slimy gloop.
- If you want to make it coloured add some food colouring. ( be careful this can stain skin and clothes)
- Play with the slime and see how it behaves. Can you make it into a ball? and what happens if you throw it onto the floor?
- Can you squeeze the slime into a ball? What does it feel like? How long does the ball stay solid after you let go?
- If you used less water do you think the slime would fall faster or more slowly through the colander?

### OOBLECK CHALLENGE

Can you make a giant oobleck tray and [walk on oobleck](#)?

### HOW TO MAKE A GIANT OOBLECK TRAY

To make our giant oobleck tray - pour about 1 kg of cornflour into a large black tray and slowly added water until the consistency was wet, but solid when squeezed.

