

# PROFESSOR PETE'S MESSY SCIENCE

## EGG DROP



### What you need:

- Eggs (hard-boiled to guarantee no mess, or raw if you're feeling brave!)
- Plastic cup filled with water
- Plastic plate
- Cardboard tube

### What to do:

1. Place the plastic plate over the top of the cup of water.
2. Put the cardboard tube upright on top of the plate. Make sure it is lined up with the middle of the cup.
3. Carefully balance the egg on top. Make sure the egg is on its side, so it doesn't get stuck in the tube.
4. Firmly hit the plate **from the side** with the palm of your hand.

### What happens?

The egg should fall from the top of the tube and (hopefully) land in the cup of water. You may have to go and pick up your plate and tube from the floor!

### Why does this happen?

This experiment demonstrates **Newton's First Law of Motion**, which says that an item in motion will remain in motion, and an object at rest will stay at rest unless an outside force acts on it. In this case, the egg stays in one place until a force (your hand) causes it to move. Gravity then takes over and pulls the egg towards the centre of the Earth.