

# What is an Experiment?

An experiment is one way to answer a question.

An experiment is a way of testing to explain or discover something.

We all do experiments to learn about our universe.



# Hypothesise

Water



+



+

Oil



+



Food  
colouring

Effervescent  
tablets

What do you think is going to happen?

# Procedure

1. First, fill a bottle  $\frac{3}{4}$  full with oil.
2. Secondly, fill the rest of the bottle with water.
3. Then, add 10 drops of food coloring.
4. After that, break the tablet into pieces and drop them into the oil/water.
5. Finally, screw on the bottle cap and move the bottle to watch a wave appear.

# What happens?

Oil and water do not mix.

Food coloring mixes with water but not oil.

When you pour the water into the bottle with the oil, the water sinks because water is heavier (more dense) than oil.

The effervescent tablet reacts with the water making gas bubbles. The bubbles hold on to some of the coloured water and floats to the surface. When the bubbles 'pop', the water sinks back down. Beautiful!