

STEM: Olympic Torch in a Bottle

Learning Intention: We can observe how the properties of liquids and gases behave in different ways.

Success Criteria:

1. I can observe that gases have mass and take up space.
2. I can recognise that substances exist in different states.

You will need:

Clear plastic bottle or jar



Red food colouring



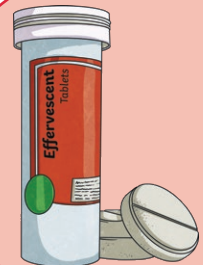
Vegetable oil



Water



Effervescent tablets



*Please dispose of oil safely and responsibly.

Method:

1. Fill the bottle or jar a quarter full with water.
2. Fill almost to the top with vegetable oil.
3. They should separate into two layers, water at the bottom and oil sitting on top.
4. Add about 6-8 drops of food colouring once the oil and water separate.
5. The colour will mix with the water at the bottom.
6. Put in half of an effervescent tablet and watch the bubbles form. Add more effervescent tablets bit by bit to keep the bubbles rising and falling.