

3rd & 4th Class experiment:

Science and weather

Weather takes place in the atmosphere, the layer of air that surrounds Earth. The atmosphere is made up of air which is a mixture of gases and tiny suspended particles.

The most plentiful gas is nitrogen. Nitrogen accounts for about 78 percent of the air we breathe. The second most plentiful gas is oxygen, at 21 percent. The remaining 1 percent consists of a variety of gases. In spite of their low concentrations, some of these gases play vital roles. For example, the atmosphere contains little water vapour. This vapour is an invisible gas produced when water evaporates. Yet, without water vapour there would be no clouds, no rain, no snow, and no plants or animals. (0.2% to max 4% = water vapour)

Oxygen In The Air Experiment:

Materials: Basin of (coloured) water, candle, large jar or wide necked bottle, candle, matches.

You **MUST** have an adult help with this experiment as matches and fire are DANGEROUS!!!!

Method:

1. Place lit candle in basin of water.
2. Cover quickly with inverted jar/bottle so the top of the jar/ bottle is in the water.
3. Wait, watch and record what happens:

The candle stayed lit until the oxygen in the bottle ran out ✓

Why did this happen?

When the oxygen in the bottle ran out the candle stopped burning because fire needs oxygen to burn

Think how this knowledge could help put out fires! We know fire needs O₂ so you must cover it with something and don't open doors ✓

Draw a diagram of the experiment and label it:

