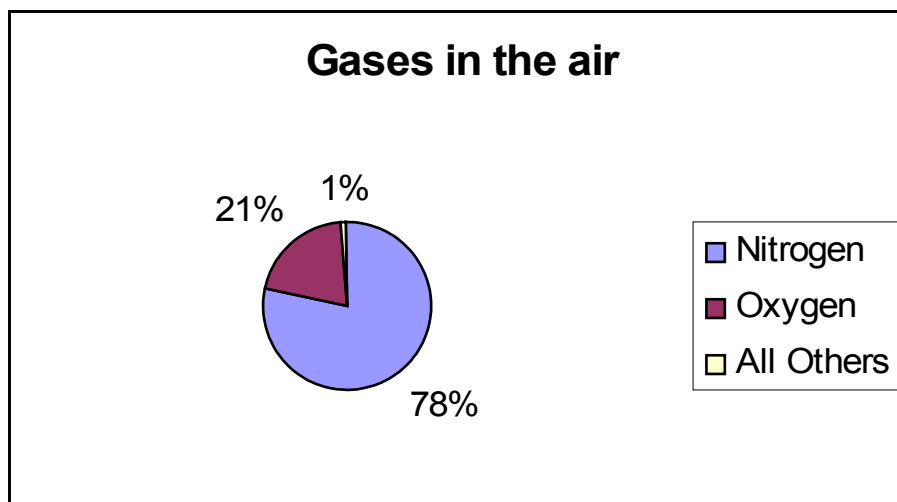




### What are the important gases in the air?

There are many important gases in the air but the most important are Oxygen, Nitrogen and Carbon dioxide.

The make up of gases in the air is shown in the pie chart



### Do we need Oxygen for burning things?

Yes Oxygen is necessary for things to burn. Without Oxygen there would be no life

as we know it on Earth. Fire extinguishers contain materials that smother Oxygen, thus putting out the fire.

Next time on bonfire night when you see all the flames think also of all the oxygen being used up to make it burn.

Did you know that a large tree produces enough Oxygen to keep you alive? That's why it is really important to save our trees and plant them too.

### What is produced when Carbon dioxide and Energy from the Sun is used in Plants?

Plants take Carbon dioxide from the air and energy from the sun and make sugar.

This process is called Photosynthesis. Animals then eat the plants and use that energy to live. Food chains always start with a plant.

### What are the main gases in the air that contribute to Global Warming and Climate change?

**The gases in the air that contribute to climate change the most are Carbon Dioxide and water vapour. As the planet begins to heat up many more dangerous gases could be released. Methane, for instance which will be released in large volumes if the permafrost in cold areas of the planet begins to thaw.**

**What are the main ways we as individuals can reduce our energy consumption and do our bit to help Mother Earth?**

**There are many ways we as individuals can help our planet. Here are but a few:**

- 1. Unplug your phone charger. Equipment on standby uses up to 20% of the energy it would use when fully on.**
- 2. Walk or cycle instead of driving for short journeys it costs nothing and is good for you.**
- 3. Turn your heating down to a comfortable 20°C lowering your thermostat by 1°C will knock 10% off your heating bill.**
- 4. Buy 'A' rated kitchen appliances. They cost less to run and over time will give you considerable savings on your electricity bill.**
- 5. Use compact fluorescent lamps (CFLs) instead of traditional bulbs they use 20% of the energy and last up to 15 times as long.**
- 6. Wait for the dishwasher to be full before you switch it on as half full one uses the same energy as a full one.**
- 7. Switch off lights when you leave a room. Energy is wasted, lighting unoccupied rooms.**
- 8. Don't overfill your kettle. Only boil as much water as you need.**
- 9. Check your tyre pressure. A car with correctly inflated tyres is more fuel efficient.**
- 10. Avoid unnecessary electricity use between 5pm and 7pm and this will help reduce national CO<sub>2</sub> emissions.**
- 11. Don't throw litter... Recycle it instead.**

**Ask your child what happened when a flower was dipped in Liquid Nitrogen at approx -180 degrees Centigrade**

**When a flower is cooled that low, instantly all the water in the cells freeze and the flower can be crumbled like a biscuit. It is great to see.**

**Don't forget to complete the Wordsearch!**



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