Atoms & Molecules

A **taxonomy** for a compositional report is a diagram that shows parts of a whole.

1. Read each paragraph.
2. Highlight the nouns (things and names of things).
3. Then fill in the taxonomy diagram to show the whole and the parts and sub-parts.

The air in the atmosphere is a mixture of different gases that is constantly changing.

Nitrogen makes up 78% of the air. The oxygen we breathe makes up 21% of the air.

Another gas called argon is less than 1% of the air. Carbon dioxide is around 0.03%. Small amounts of other gases make up the remaining parts.

Air

Water is made up of molecules. It is a compound of hydrogen and oxygen atoms. Each molecule of water contains two atoms of hydrogen and one atom of oxygen.

An atom is a tiny particle made up of even tinier particles. In the centre of each atom there is a

nucleus. Inside the nucleus, there are protons and neutrons. Electrons whiz around the nucleus, like planets orbiting the sun. There are even smaller

particles inside the nucleus. A neutron is made up of tiny particles called quarks held together with other particles called gluons.