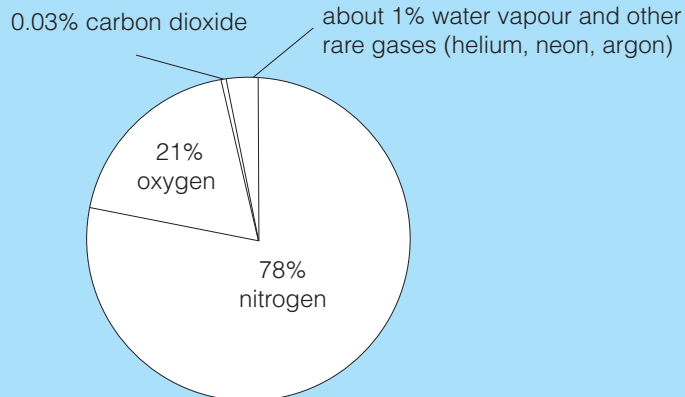


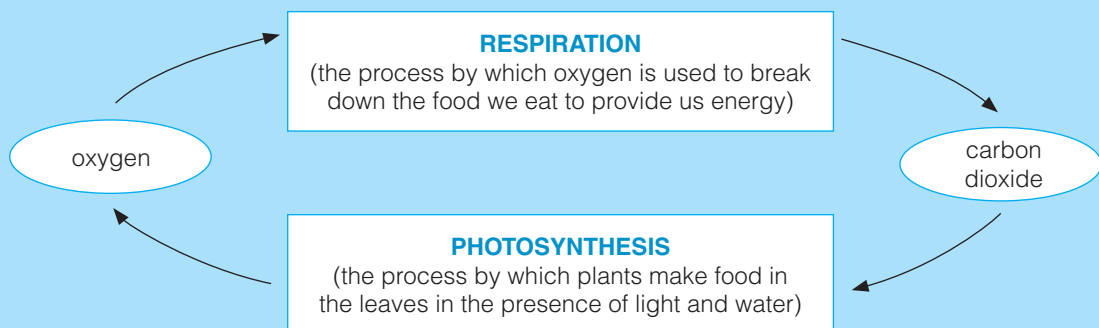
Air and The Respiratory System

- **Air** is made up of the following gases: **nitrogen, oxygen, carbon dioxide, water vapour** and **other rare gases**.



A pie chart to show the components of air

- Of all the components of air, oxygen and carbon dioxide are especially important since they are needed in two very important processes that take place in living things.



- **Respiration** is a process in which **living things take in oxygen and use it to break down food into useful energy and give out carbon dioxide as a waste product**.
- Breathing is a voluntary action that is done constantly by living things when they take in oxygen and give out carbon dioxide.
- The **main organs of the human respiratory system** are the **nose, windpipe, lungs** and **diaphragm**.
- Different animals breathe differently. Some **breathe through their nostrils or blowholes**. Others **breathe in through spiracles, gills or moist skin**.
- **Plants respire all the time**.
- **Plants take in oxygen and give out carbon dioxide during respiration**.
- **Plants take in carbon dioxide and give out oxygen during photosynthesis**.