

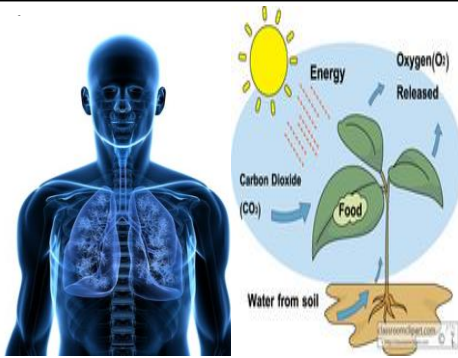
Rationale

Pupils learn about the Earth's atmosphere from its beginnings to the present day. Pupils learn why the atmosphere is changing and what impact this is having on global temperatures. They will be able to describe the greenhouse effect, the causes of acid rain and the carbon cycle.

Diagrams

Keywords

Definitions



The Atmosphere

The mixture of gases surrounding the Earth

Respiration

The process where Glucose and Oxygen are converted into Carbon Dioxide and allows the transfer of energy

Photosynthesis

The process by which green plants and some other organisms use sunlight to make glucose from carbon dioxide and water.

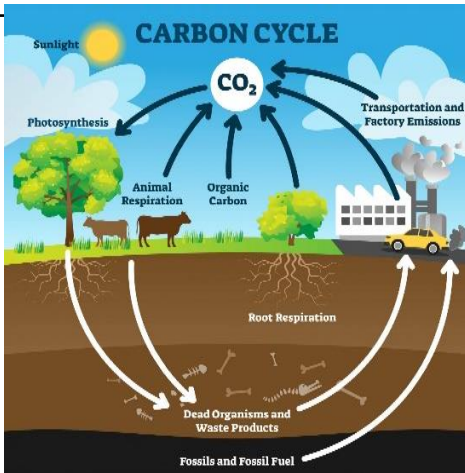


Combustion

Combustion is a chemical process in which a substance reacts rapidly with oxygen and gives off heat.

Incomplete Combustion

Incomplete combustion occurs when the supply of air or oxygen is poor.



The Carbon Cycle

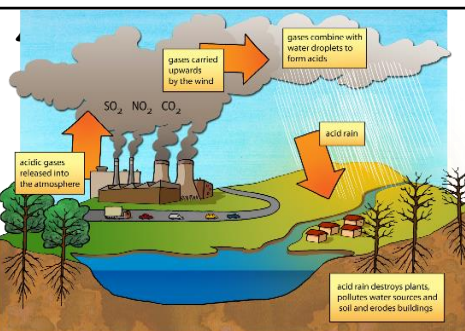
The carbon cycle is nature's way of reusing carbon atoms, which travel from the atmosphere into organisms in the Earth and then back into the atmosphere over and over again

Carbon Dioxide

Carbon dioxide (chemical formula CO_2) is a chemical compound made up of carbon and oxygen

Carbon sinks

A carbon sink is anything that absorbs more carbon from the atmosphere than it releases e.g the sea



Acid Rain

Contaminants in fuels burn and create Nitrogen oxides and Sulphur dioxide which create acidic rain.

The Greenhouse Effect

The greenhouse effect is the way in which heat is trapped close to Earth's surface by "greenhouse gases."