Testing for gases	
Carbon dioxide	Turns limewater cloudy.
Chlorine	Turns damp litmus paper red than white.
Hydrogen	A lit splint burns with a squeaky pop.
Oxygen	A glowing splint relights.

Evolution of the atmosphere		
Atmosphere	The layer of gases that surrounds the Earth.	
Carbon dioxide	A colourless, odourless gas made from molecules containing one	
	Carbon atom for every two Oxygen atoms.	
Fossil fuels	Coal, oil and natural gas formed millions of years ago by the	
	compression of the dead remains of plants and animals resulting in	
	the locking away of large amounts of carbon from the atmosphere.	
Methane	A colourless, odourless gas made from molecules containing one	
	carbon for every four hydrogen atoms.	
Nitrogen	A colourless, odourless gas made from molecules containing two	
	nitrogen atoms.	
Oceans	Large bodies of saltwater.	
Oxygen	A colourless, odourless gas made from molecules containing two	
	oxygen atoms.	
Photosynthesis	The process by which plants remove carbon dioxide from the	
	atmosphere and release oxygen.	
Respiration	The process by which all living organisms remove oxygen from the	
	atmosphere and release carbon dioxide.	
Sediments	The particles of earth material that settled out of the water.	
Volcano	A mountain formed from molten rock escaping from beneath the	
	Earth's surface. Also releases gases into the atmosphere.	
Water vapour	Water that has been evaporated and now exists as a gas in the	
	atmosphere which can condense to form clouds.	

Greenhouse gases and climate change	
Absorb	To take in
Correlation	A mutual relationship between two things: when one thing changes, so does the other. Correlation *does not* mean causation.
Deforestation	The removal of large regions of forest by humans for other purposes.
Global warming	The gradual increase in average global temperature that has been increasing in recent years due to human activity.
Greenhouse effect	The effect caused by some gases in the atmosphere that prevents infrared radiation from escaping the Earth by reflecting it back to the surface, thus leading to an increase in surface temperature.
Greenhouse gases	Any gas that contributes to the greenhouse effect.
Ozone	A thin layer of the atmosphere, about 30 km up, where oxygen is in the form of ozone molecules. This layer absorbs UV radiation from the Sun.
Peer-review	The process by which scientific papers are scrutinised and checked by other members of the scientific community before publication.
Radiation	Heat transfer by electromagnetic waves.

Carbon footprints	
Alternative energy	Energy obtained from resources other than fossil fuels
Carbon capture	Taking carbon dioxide from an industrial process and depositing it into underground rocks to prevent it entering the atmosphere.
Carbon footprint	The total amount of carbon dioxide and other greenhouse gases produced over the full lifecycle of a product, service or event.
Carbon neutral	Any process that has no overall release of carbon dioxide by balancing the amount of carbon dioxide released with the amount taken in.
Carbon off-setting	Carrying out activities that will increase the natural rate of removal of carbon dioxide from the atmosphere such as reforestation and tree planting.

Atmospheric pollutants	
Acid rain	Rain that has been made more acidic due to dissolved sulphur dioxide
	and oxides of nitrogen. Causes damage to ecosystems and buildings.
Global dimming	A reduction in the amount of sunlight reaching the surface of the Earth
	due to particulates.
Hydrocarbons	A compound containing only hydrogen and carbon.
Oxides of nitrogen	Pollutants formed when nitrogen reacts with oxygen at very high
	temperatures such as in a car engine.
Particulates	A form of atmospheric pollution made up of tiny particles such as soot
	or dust.
Pollutant	A chemical that contaminates the air, water or soil.
Sulfur dioxide	A gas that comes from burning of fuels such as coal and oil. It is a
	respiratory irritant and can damage plant tissues.
Toxicity	Measure of the harmfulness of a substance.