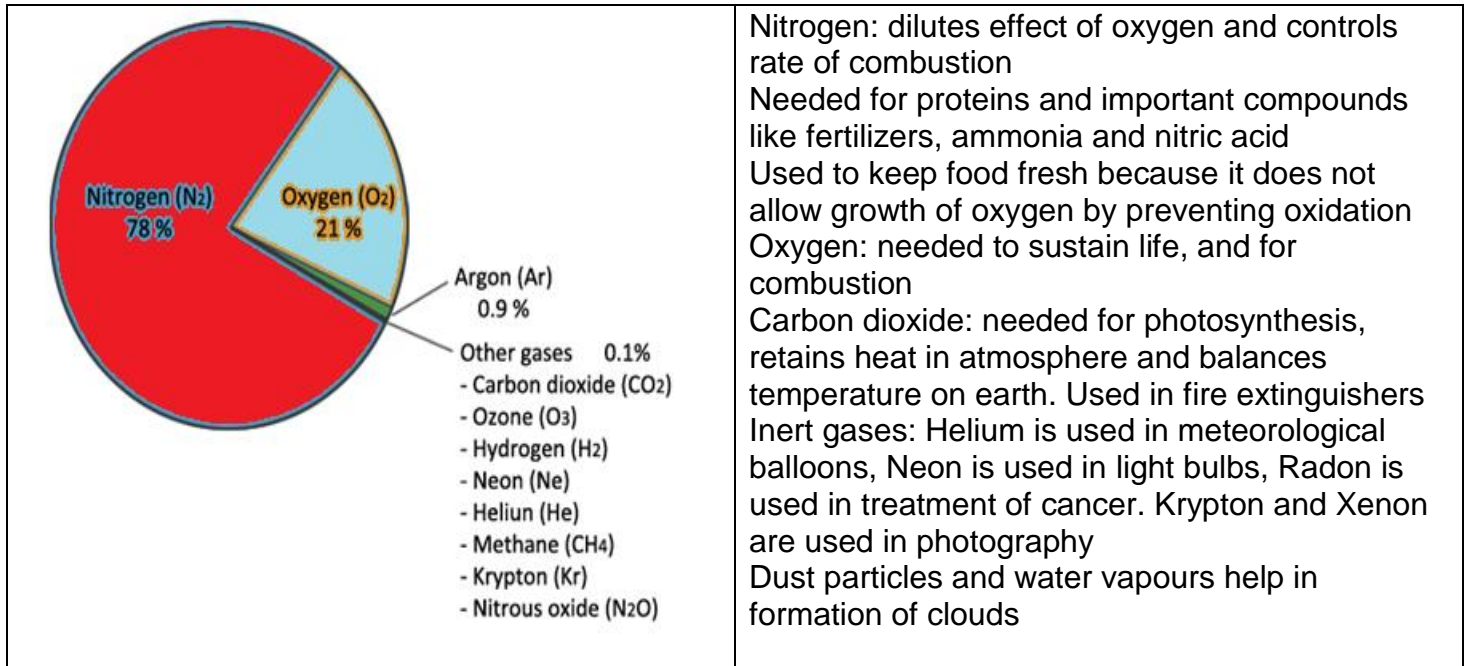

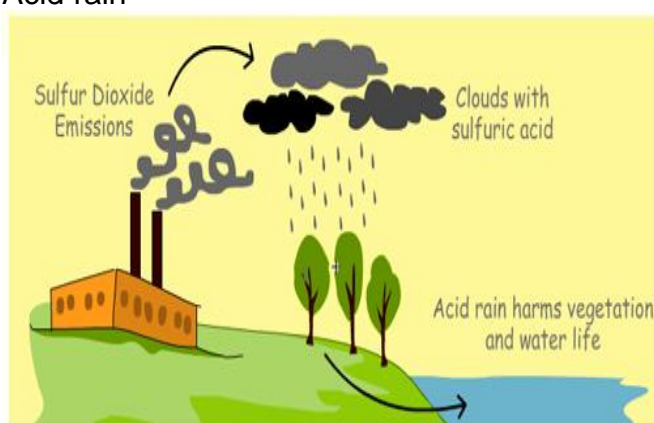


Oxygen, Air & Burning

CONSTITUENTS OF AIR

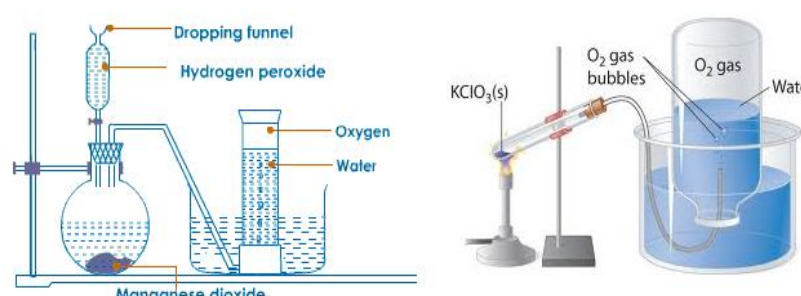


AIR POLLUTION:

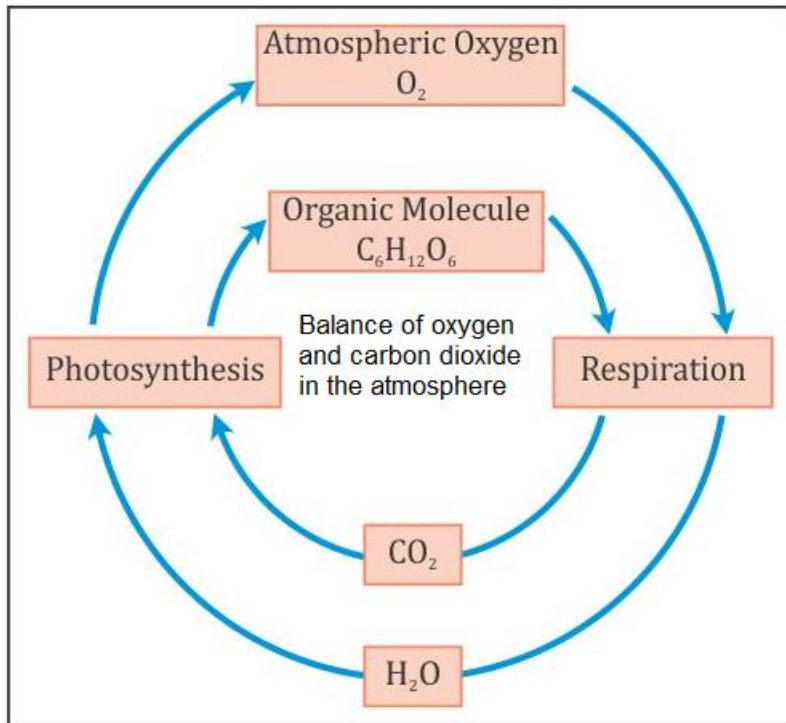
Causes of air pollution	Effects	
 <p>Automobile emissions Industrial activity Burning of fuels Smoke Pollen CFCs</p>	<p>Smog Asthma and bronchitis CO poisoning Lead oxide particles can cause brain damage Mercury particles can cause Minamata disease</p>	<p>Acid rain</p>  <p>Acid rain can corrode buildings, metallic structures and damage soil</p>

OXYGEN:

Preparation in the lab:

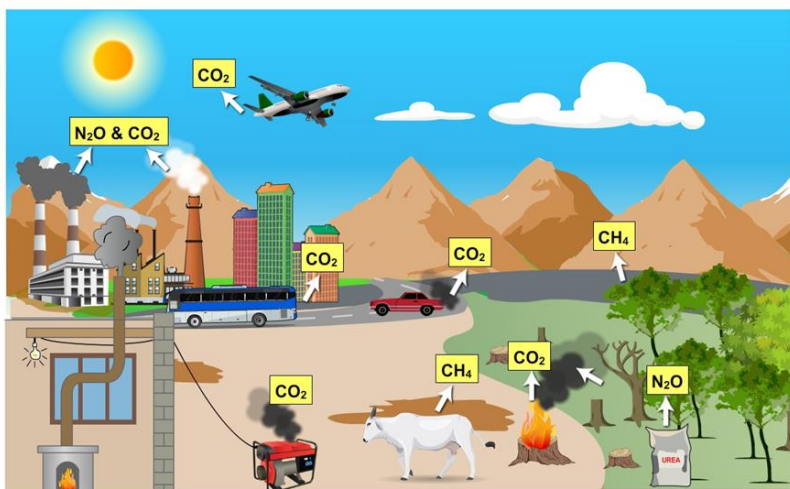
	<p>Properties:</p> <ul style="list-style-type: none"> Supports life, odorless, tasteless Supports combustion Causes oxidation in metals and non-metals Causes rust formation (Iron + oxygen → hydrated ferric oxide or rust)
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Balance of carbon dioxide and oxygen



Carbon dioxide preparation in lab	Properties
<p>Dil HCl</p> <p>Marble chips</p> <p>Carbon dioxide</p> <p>Upward displacement of air</p>	<p>Neither burns nor supports combustion</p> <p>With alkalis \rightarrow carbonate salts and water</p> <p>With water \rightarrow weak acid called carbonic acid</p> <p>With litmus \rightarrow turns moist blue litmus to red</p> <p>Turns milky when passed through lime water</p> <p>With metals \rightarrow Metal oxide + Carbon</p> <p>With non-metals $\rightarrow C + CO_2 \rightarrow 2CO$ (poisonous carbon monoxide)</p>

Greenhouse effect and global warming



Global Warming is the increase of Earth's average surface temperature due to effect of greenhouse gases, such as carbon dioxide emissions from burning fossil fuels or from deforestation, which trap heat that would otherwise escape from Earth. This is a type of greenhouse effect