Atmosphere & Weather Learning Guide

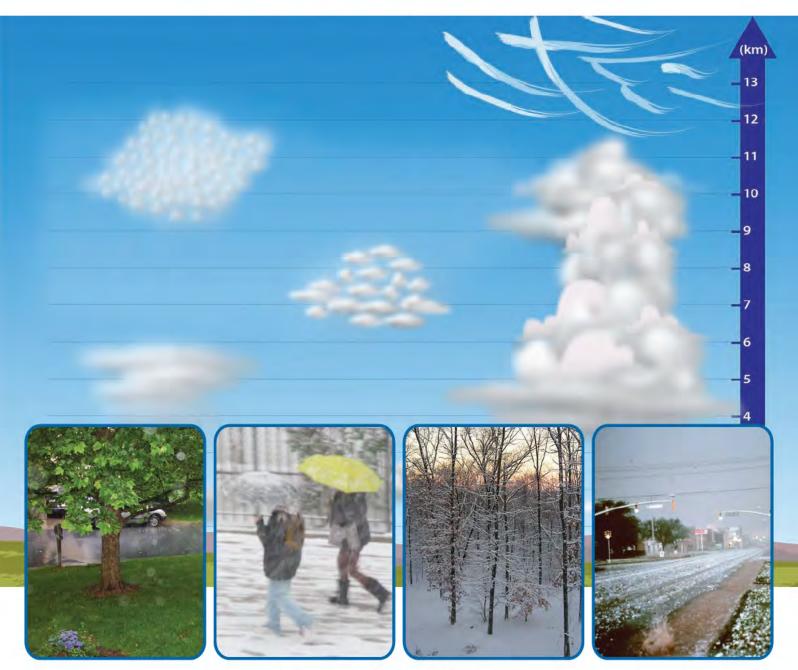




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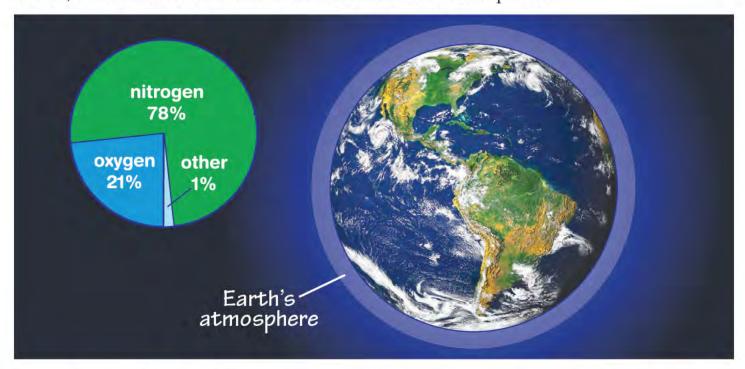
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Our Atmosphere

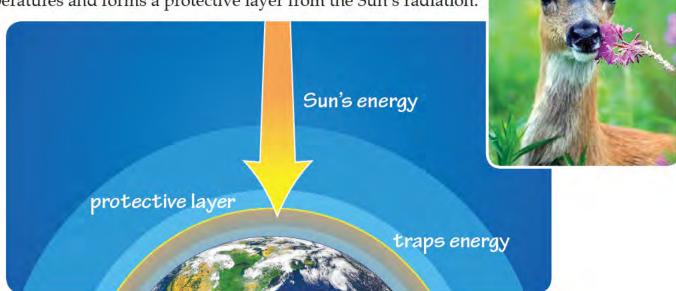
Composition of the Atmosphere

The layer of gases that surrounds our planet is called the **atmosphere**. The atmosphere is composed of 78% **nitrogen**, 21% **oxygen** and 1% other gases. Water vapor and tiny particles of dust, smoke and other chemicals are also found in the atmosphere.



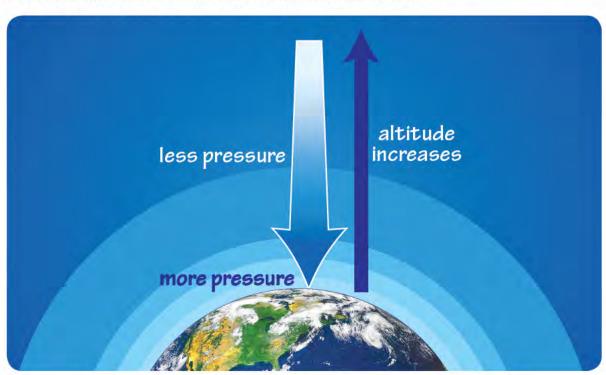
Importance of the Atmosphere

The Earth is unique because it has an atmosphere that can support life. Oxygen and gases in the air are necessary for survival. The atmosphere also **traps the Sun's energy** to maintain moderate temperatures and forms a protective layer from the Sun's radiation.



Atmospheric Pressure

The force that atmospheric gases exert on a surface is called **air pressure**, or **atmospheric pressure**. This pressure is highest near sea level because gravity pulls the air molecules close to the Earth's surface. Pressure **decreases** as altitude **increases**.



Air Pollution

Humans add pollutants into the atmosphere every day. Natural sources of air pollution include volcanic ash, pollen and wildfire smoke. Air pollutants can travel great distances and impact environments around the globe.







