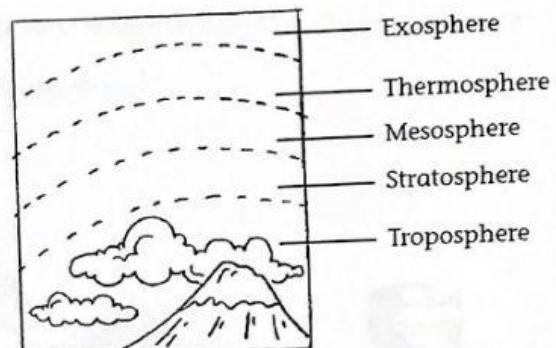


The Weather

Meteorology is the study of weather and the atmosphere. **Meteorologists** are scientists who study and measure weather conditions. Meteorologists have developed tools for measuring weather conditions such as air temperature and wind speed. They use the information from the weather instruments to predict the weather.

Earth's atmosphere

The atmosphere is the air that surrounds Earth. It is a very thin blanket surrounding the entire Earth and is a mixture of gases, solids, and liquids. The air we breathe is made up of 78% nitrogen, 21% oxygen, 0.4% carbon dioxide, up to 0.6% water vapour and traces of other gases including ozone, helium and hydrogen. The air in the atmosphere has certain properties. Air takes up space, has weight, and presses on things. The atmosphere has layers. Weather takes place in the lowest layer of the atmosphere.



Elements of Weather

Weather is what is happening in the atmosphere at a certain place. Temperature, wind and precipitation are all elements/parts of the weather. **Temperature** is a measure of how hot or cold something is. **Wind** is the movement of air.

Precipitation is any kind of water from the atmosphere that falls to the ground.

Climate is the average weather of a region over a long period.