

## Wild Weather & Crazy Climate

**Weather** - Weather is the state of the atmosphere at a particular place and time

**Climate** - Is the state of the atmosphere over a long period of time.

### Weather

There are different types of weather. These include sun, rain, snow, cloud, fog and wind. People who forecast the weather are called meteorologists.

### Weather symbols

Symbols are used to show different types of weather.



sun



cloud



rain



storm



hail



snow



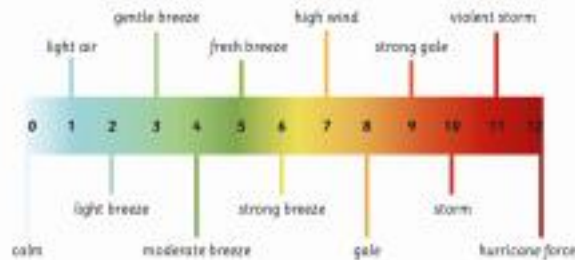
wind

**FOG**

fog

### Beaufort Scale

Sir Francis Beaufort was an admiral who created the Beaufort Scale. The Beaufort Scale helps sailors to understand wind conditions.



### World weather

The equator is an imaginary line that divides the Earth into two parts, the Northern and Southern Hemispheres. Warmer areas of the world are closer to the equator and colder areas of the world are further from the equator.

### Weather equipment

Weather can be measured using simple equipment.



A thermometer is used to measure the temperature.



A rain gauge is used to measure the amount of rainfall.



An anemometer is used to measure wind speed.



A weather vane is used to show the wind direction.

### Extreme weather

There are many types of extreme weather. Extreme weather can be dangerous to both humans and the environment.



flood



storm

## Comparing climates

Weather and climate mean different things. Weather is rain, sun or snow and it is changing all the time. Climate is the pattern of weather over a longer time. There are differences in the climate between continents across the world.



Antarctica is far away from the equator and has a cold climate.



Africa is close to the equator and has a hot climate.

## Glossary

<b>continent</b>	A large mass of land.
<b>equator</b>	An imaginary line around the middle of the Earth.
<b>extreme</b>	Very serious or intense.
<b>flood</b>	A large amount of water that covers the land.
<b>hemisphere</b>	A half of the Earth.
<b>opaque</b>	A material that does not allow light to pass through.
<b>storm</b>	A type of weather that includes heavy rain, strong winds or snow.
<b>translucent</b>	A material that allows some light to pass through.
<b>transparent</b>	A material that allows light to pass through.
<b>weather forecast</b>	A prediction of the weather.

<b>Climate zones</b>	Geographical zones loosely divided according to their climate. Earth has three main climate zones - <b>tropical, temperate, and polar.</b>
<b>Tropical</b>	Found on or close to the Equator are typically tropical: they're warm and wet. The Amazon Rainforest has a tropical climate.
<b>Temperate</b>	Temperatures can change greatly here, between summer and winter. So, most places with a temperate climate have four seasons: summer, autumn, winter and spring
<b>Polar</b>	Usually has a temperature below freezing, is icy and covered in snow. These areas do not get direct heat and sunlight from the sun. The North Pole has a polar climate.

