

Year 4 Geography

Antarctica

Geography Knowledge:

- To identify the position of lines of latitude and longitude.
- To understand the impact of climate change on the Antarctic region.
- To understand the impact of climate zones, as well as human and physical geography.

Key vocabulary:

Latitude: imaginary lines that run parallel to the **Equator**. They show us how far **North** or **South** a place is.

Longitude: imaginary lines that run from the top of the Earth to the bottom. They show us how far **East** or **West** a place is.

Equator: an imaginary line of latitude around the centre of the Earth.

Time zone: The Earth is divided into 24 time zones. One for each hour of the day.

Compass: a device used for finding directions.

Uninhabited: no one lives there permanently.

Pollution: the introduction of harmful materials to the environment.

Biome: an area of the planet that can be classified according to the plants and animals that live in it.

Sea level: the base level for measuring elevation and depth on Earth.

Why are there time zones?

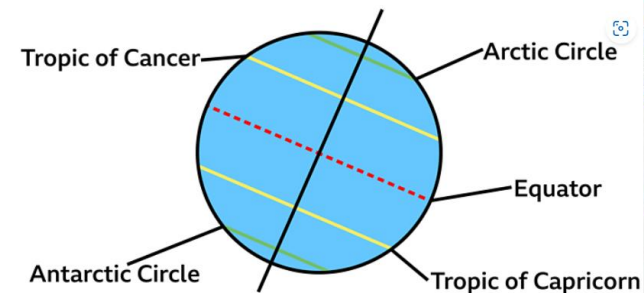
It takes 24 hours for the Earth to rotate on its axis. Time zones are divided by imaginary lines called **meridians**. They run from the North Pole to the South Pole, crossing lines of latitude. There are 24 time zones, one for each hour of the day. There is an imaginary line running through the UK called the **Prime Meridian**. It is also known as the **Greenwich Meridian**. It runs through a place in London called Greenwich. Time in countries to the east of the Greenwich Meridian is always in front of that in the UK. Time in countries to the west of the Greenwich Meridian is always behind that of the UK.

What is latitude and longitude?

We use imaginary lines to help locate where a place is in the world. We use lines of latitude to find out how far north or south a place is. These lines run parallel to the Equator.

There are five major lines of latitude:

- Arctic Circle (the North Pole).
- Antarctic Circle (the South Pole).
- Tropic of Cancer.
- Tropic of Capricorn.
- The Equator.



Time zone map

