Invisible Lines of the Earth Lines of Longitude and Latitude

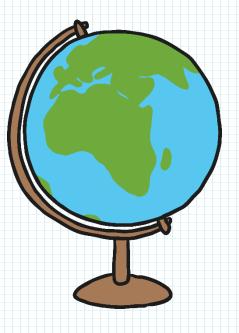
Resources

1 Orange between 3 people 1 black, red and blue pen A camera

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Learning Objective

To learn to identify the position and significance of latitude, longitude,
Equator, the Northern Hemisphere, the Southern Hemisphere, the Tropics of
Cancer and Capricorn, the Arctic and Antarctic Circles, the Prime/Greenwich
Meridian and time zones (including day and night).

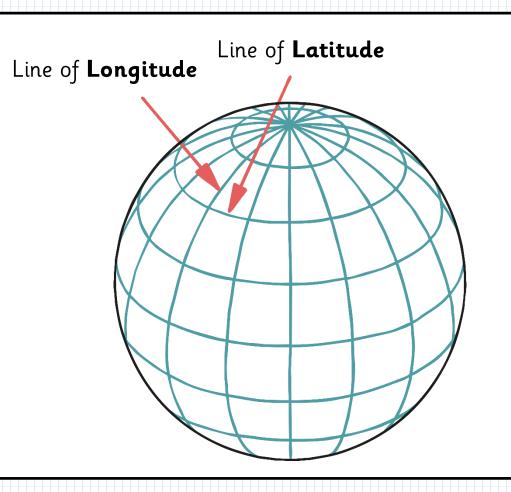


How is it possible to find the exact location of a place on Earth?

Latitude and Longitude

Invisible lines of latitude and longitude form a grid over the Earth.

These lines help to create a co-ordinate to locate a place accurately.

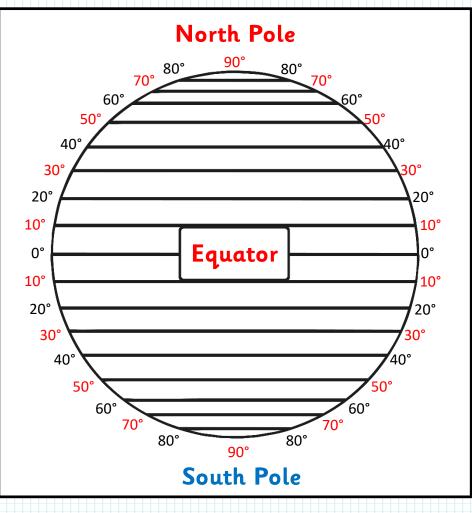




Latitude

Lines of latitude (also known as **parallels**) circle the Earth from east to west. These invisible lines are all the same distance apart. One line to the next is known as 1 degree.

- Each degree of latitude is separated into smaller divisions called minutes.
- There are 60 minutes in 1 degree.
- Each minute is divided into 60 seconds (not always included within the coordinate).
- As you can see from the diagram, the Equator lies at 0 degrees.



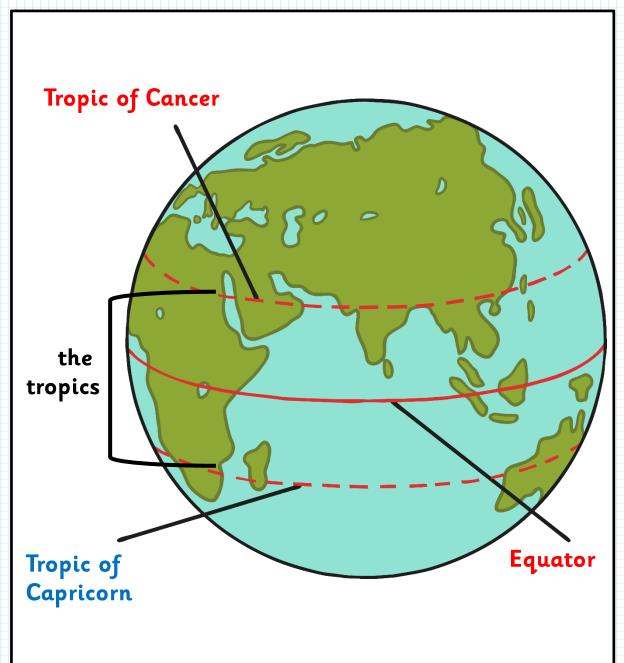
The Equator is an important line of latitude. It is an imaginary line half way between the North and South Poles. Countries near to the Equator are very hot as this is the Earth's closest point to the Sun.

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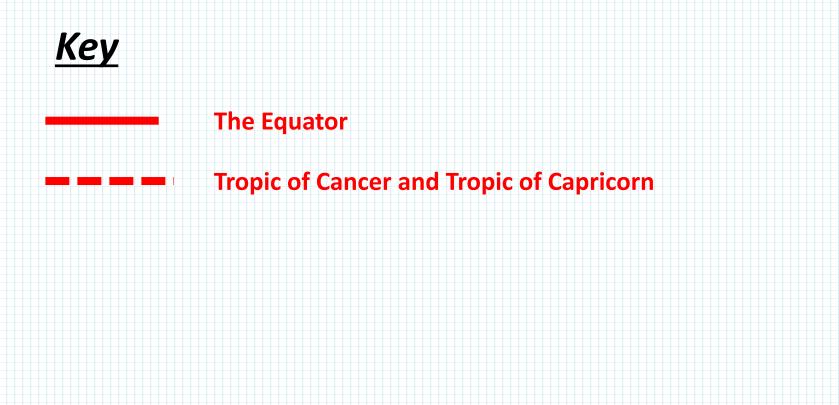
Other Important Lines of Latitude

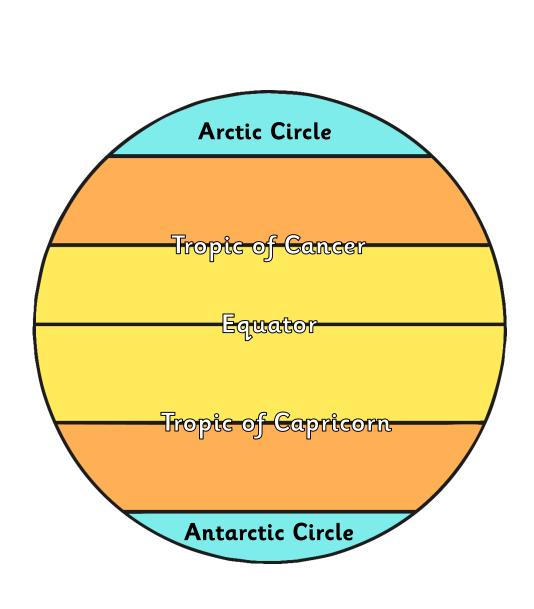
The Tropic of Cancer lies at 23.5 degrees north and the Tropic of Capricorn lies at 23.5 degrees south of the Equator.

The area of the Earth which lies between both of these lines is called **the tropics.**

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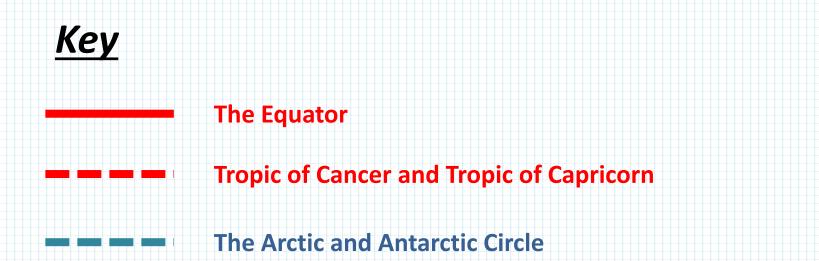
Other Important Lines of Latitude

The Arctic Circle lies at 66.5 degrees north whilst the Antarctic Circle likes at 66.5 degrees south.

The areas in blue and orange are those which have 4 distinct seasons.

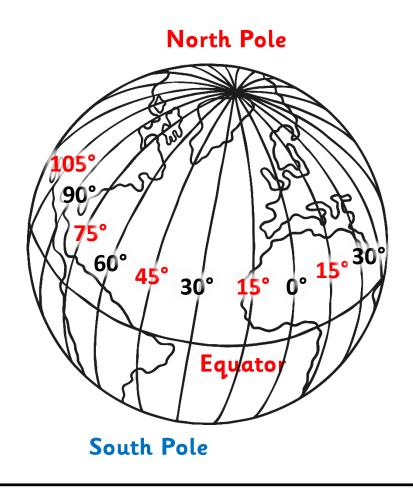
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Longitude

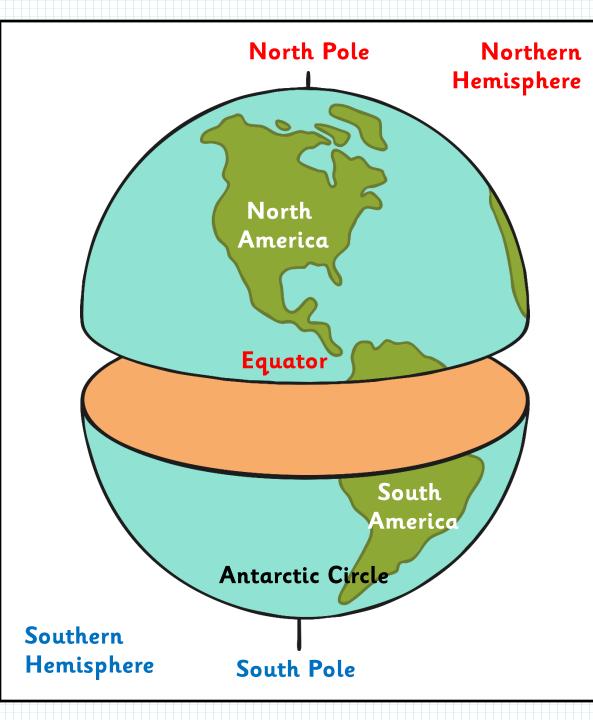
- These are the lines which run north and south and are known as lines of longitude or meridians of longitude. These lines are measured in the same way as the lines of latitude.
- The Prime Meridian or Greenwich Meridian line is a line of longitude at 0 degrees.
- It passes right through Greenwich in London.
- International Date Line is a line of longitude at 180 degrees.



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An Orange World

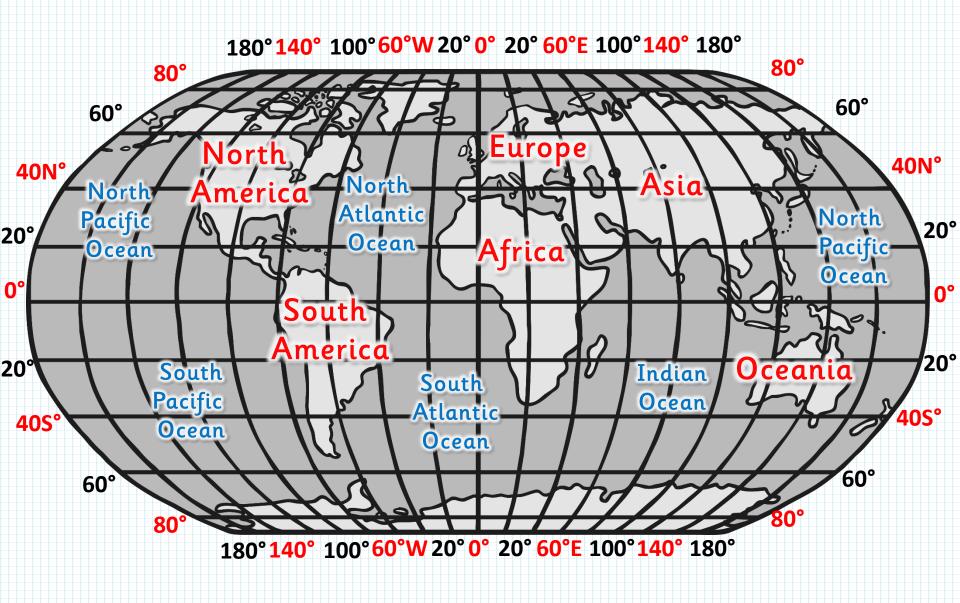




Imagine the Earth cut in half...

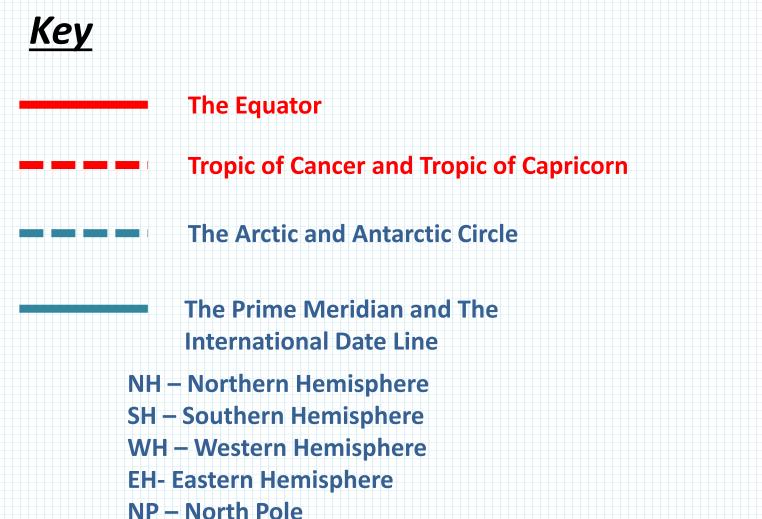
The Northern Hemisphere is anywhere north of the Equator whilst the Southern Hemisphere is anywhere south of the Equator.

What countries do you know in the Northern Hemisphere?



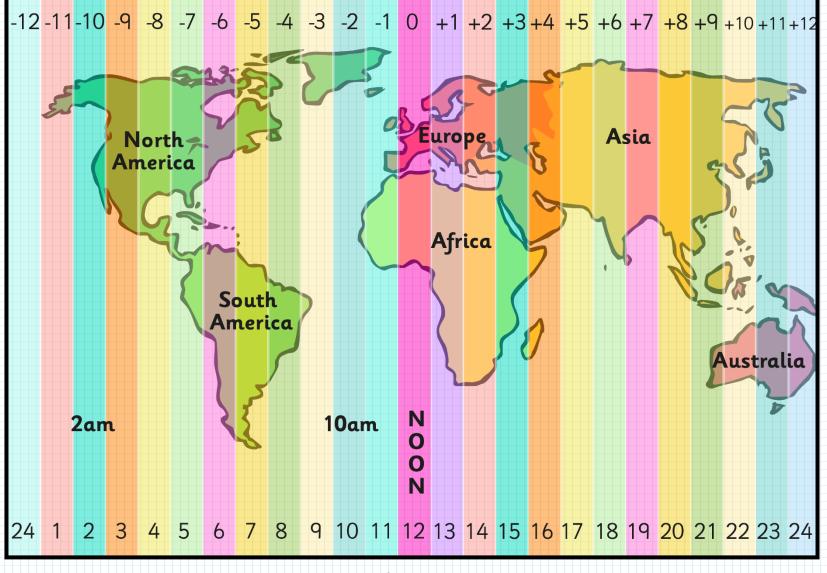
What countries do you know in the Southern Hemisphere?

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SP – South Pole

World Time Zones: How it Works



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24hr time



Which are lines of latitude and which are longitude?

