



# LATITUDE and LONGITUDE KNOWLEDGE ORGANISER



## Overview

Latitude and longitude are a system of lines that are used to describe the location of any place on Earth.

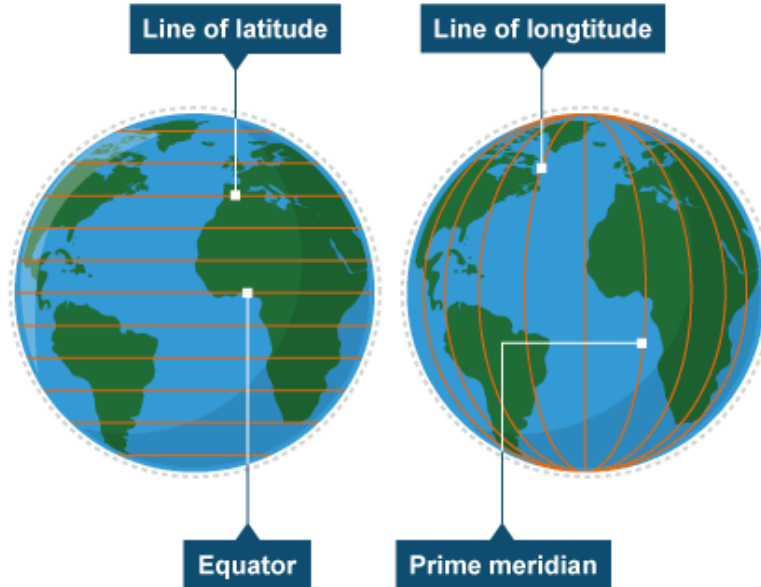
### Latitude

-Lines of latitude run in an east-west direction across the Earth.

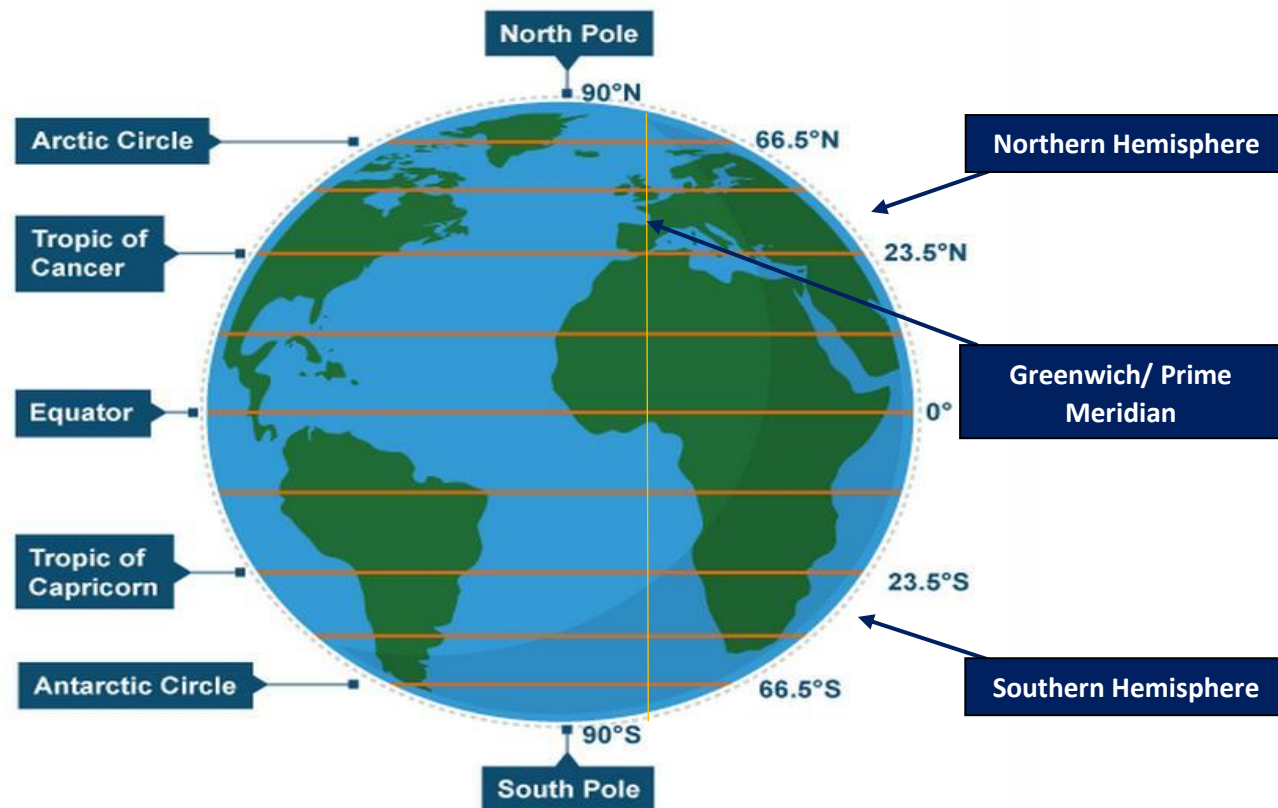
### Longitude

-Lines of longitude run in a north-south direction.

Although lines of longitude and latitude are only imaginary, they exist on maps and atlases to help to show us where different places are.



## Labelled Diagram



## Latitude

- Lines of latitude circle the Earth parallel to the Equator.
- Lines of latitude run in an east-west direction all of the way around the Earth.
- Latitude is measured in degrees. The Equator is located at 0°.
- Anything north of the Equator is in the northern hemisphere and is labelled °N.
- Anything south of the Equator is in the southern hemisphere and is labelled °S.

<b>Equator</b>		-The Equator is an imaginary line of latitude which circles the Earth. It lies halfway between the North/ South Poles. -It splits Earth into the Northern/ Southern Hemispheres. The distance around the Equator is about 24,900 miles.
<b>Tropic of Cancer</b>		-The Tropic of Cancer is an imaginary line of latitude which circles the Earth. It lies at 23 degrees north (23°N). -It is the latitude where the Sun is overhead on June solstice (middle of summer in the northern hemisphere).
<b>Tropic of Capricorn</b>		-The Tropic of Capricorn is an imaginary line of latitude which circles the Earth. It lies at 23 degrees south (23°S). -It is the latitude where the Sun is overhead on December solstice (middle of summer in the southern hemisphere).
<b>Northern Hemisphere</b>		-The Northern Hemisphere is the section of the Earth that is north of the Equator. -About 68% of land is in the Northern Hemisphere. -Countries include the UK, USA, and Russia.
<b>Southern Hemisphere</b>		-The Southern Hemisphere is the section of the Earth that is south of the Equator. -Only About 32% of land is in the Northern Hemisphere. -Countries include Brazil, Australia, and New Zealand.
<b>Arctic Circle</b>		-The Arctic Circle is the area north of an imaginary line of latitude situated at around 66°N. -In the Arctic Circle, all places have 24 hours of daylight during the December solstice.
<b>Antarctic Circle</b>		-The Antarctic Circle is the area south of an imaginary line of latitude situated at around 66°S. -In the Antarctic Circle, all places have 24 hours of daylight during the December solstice.

## Longitude

- Lines of longitude run between the North and South Poles. These lines are called meridians.
- Like latitude, longitude is measured in degrees. The Greenwich (or Prime) Meridian is at 0°E.
- Anything east of the Greenwich Meridian is in the eastern hemisphere and is labelled °E.
- Anything west of the Greenwich Meridian is in the western hemisphere and is labelled °W.

<b>Greenwich/ Prime Meridian</b>		-The Greenwich Meridian is an imaginary line of longitude that divides Earth into the Eastern/Western hemispheres. -It is the start point for measuring longitude & time zones. -Greenwich was chosen because its Royal Observatory was used as a major navigational base at the time.
<b>Time Zones</b>		-Time zones give the time at different places on Earth (it is day/night at different times in different places). -Time zones run longitudinally and are measured in relation to the time in Greenwich (Greenwich Mean Time). -There are 24 time zones across the world.

## Key Vocabulary

- Latitude
- Longitude
- North
- East
- South
- West
- Equator
- Tropic of
- Cancer
- Tropic of
- Capricorn
- Hemisphere
- Arctic Circle
- Antarctic Circle
- Time Zone
- International Date Line
- Meridian
- Greenwich/ Prime Meridian

## Time Zones

