



# YEAR 4 ALL AROUND THE WORLD KNOWLEDGE ORGANISER



## Key Vocabulary

co-ordinates	a set of numbers and/or letters that show you a specific position on a map
hemisphere	a half of the earth, usually divided by the equator into the northern and southern hemisphere
observatory	a place for observing and studying natural events on Earth or in space
polar	the are around the North or south Pole
precipitation	Water particles that reach the ground including rain, hail and snow
longitude	longitude lines run over the top of the earth north to south.
latitude	latitude lines run around the earth east to west.
equator	The Equator is an imaginary line that is drawn around the middle of the Earth to divide it into the Northern and Southern Hemispheres.
biomes	biomes are areas of the planet with a similar climate and landscape, where similar animals and plants live

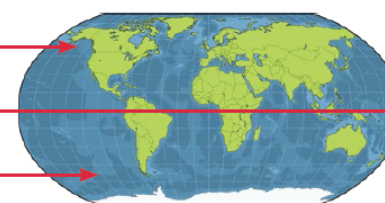
What do the Equator, latitude, and longitude tell us about where places are in the world?



northern **hemisphere**

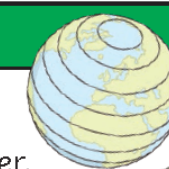
equator

southern **hemisphere**

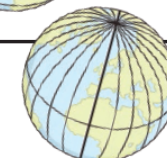


## Longitude and Latitude

Latitude lines run around the earth east to west.  
These lines are the same distance apart from each other.



Longitude lines run over the top of the earth north to south.  
These lines are not equally distant from each other.



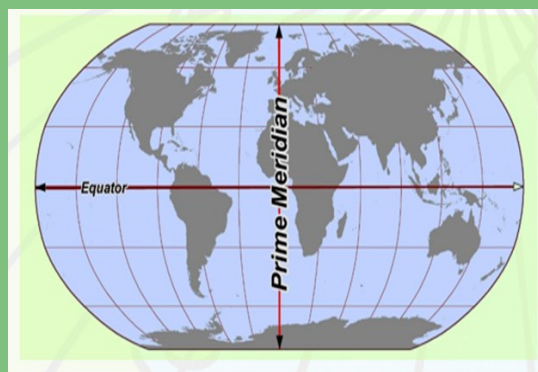
These lines are used to give the specific location of anywhere in the world using **co-ordinates**.

Why are the Arctic and Antarctic Circles important, and how do they compare to the UK?



North Pole	South Pole
Arctic Circle	Antarctic Circle
Includes parts of Russia, Greenland and Iceland	There are no countries No one lives there permanently It's a protected place of scientific and environmental research

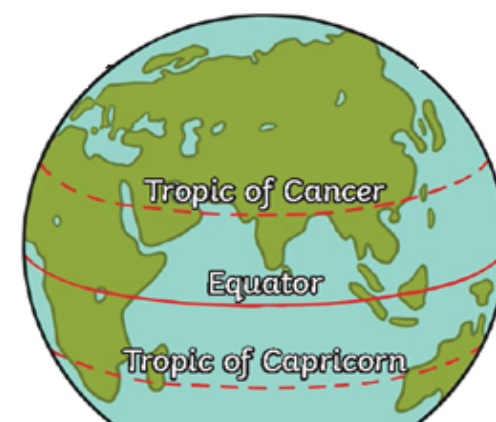
## Which countries can we find along the Meridian Line?



In the Northern Hemisphere the Prime Meridian passes through:

- UK
- France
- Spain
- Algeria
- Mali
- Burkina Faso
- Togo
- Ghana

The only landmass crossed by the Meridian in the Southern Hemisphere is Antarctica



## Where are the Tropics of Cancer and Capricorn?

- The Tropic of Cancer (northern tropic) and the Tropic of Capricorn (southern tropic) mark the most northerly and southerly positions that the sun can be overhead.
- Between the tropics the weather is hot all year round.
- Rainfall can vary here. In some places, there is very little rain, some areas have a rainy season and some places have lots of rain all year round.

## How do biomes and vegetation belts shape the physical geography of our planet?

### Forest

Forest biomes are home to a variety of trees and other plants. They cover about 30% of our Earth's land area and are extremely important to our ecosystem as they store carbon and provide many materials that we use.



### Grassland

The majority of this biome is made up of a variety of grasses with very few trees or large plants. The two main types of grasslands found are 'tall-grass' (humid and wet), and 'short-grass' (dry). This biome is very popular for farming due to the rich soil.



### Aquatic

This is the largest biome out there, covering nearly 75% of our planet and can be divided into two main categories: freshwater and saltwater.



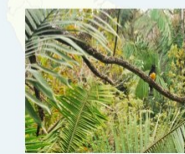
### Desert

These biomes cover about one fifth of our planet's land area and are extremely dry. Depending on their location, they can be either hot or cold. Plants and animals have evolved over time to adapt to the harsh environment.



### Rainforest

Home to a variety of tropical plants and animals and found in regions that are warm all year round. Unfortunately, rainforests now cover less than 6% of our planet's land area but still produce about 40% of our oxygen.



### Tundra

This is the coldest biome and therefore has little plant and animal variety. Tundra biomes cover approximately one fifth of the Earth's land area.

