

Year 4 – Geography
All Around the World
Lesson 2: Over and Around

Wednesday 20th January 2021



Over and Around

twinkl

Aim

- I can identify lines of latitude and longitude.
- I can use longitude and latitude to find places on maps, atlases and globes.

Success Criteria

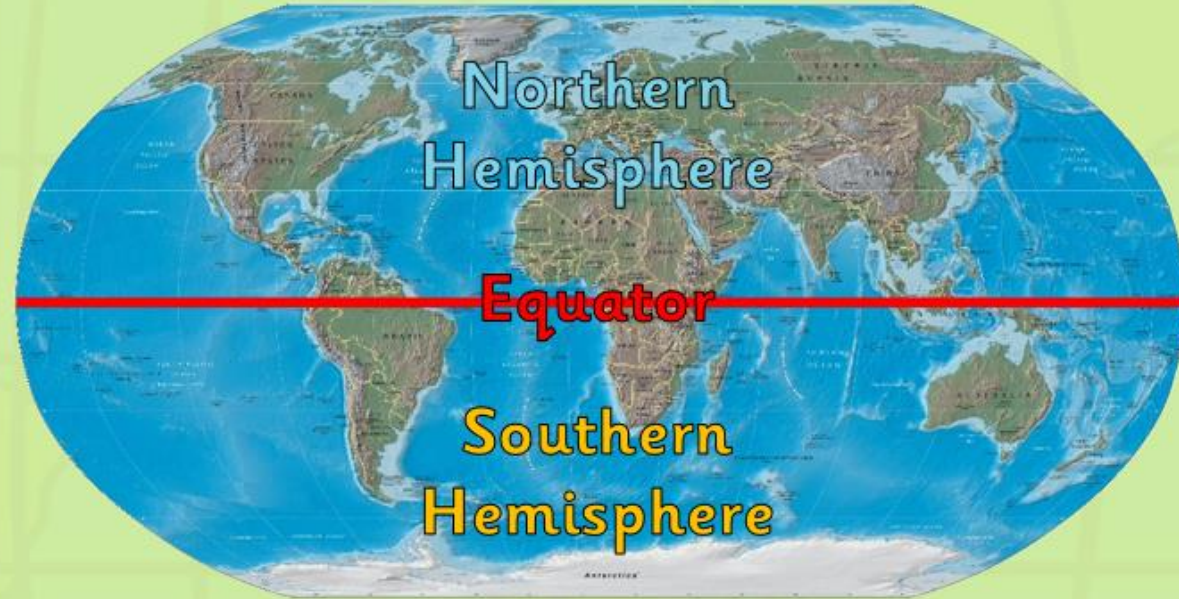
- I can identify lines of latitude on a map.
- I can identify lines of longitude on a map.
- I can identify a location on a map when the latitude and longitude are provided.
- I can identify the latitude and longitude of a location on a map.

Can You Remember...?

What is that
red line?

What is the
half **above** it
called?

What about
the part **below**
the red line?



But what about the faint white lines you can see?

What is latitude and longitude?

To help locate where a place is in the world, people use imaginary lines:

To find out how far **north** or **south** a place is, lines of **latitude** are used. These lines run parallel to the Equator.

To find out how far **east** or **west** a place is, lines of **longitude** are used. These lines run from the top of the Earth to the bottom.

Hemispheres

The **Equator** is at the centre of the lines of latitude and is at 0° latitude. Anything lying south of the Equator is in the **Southern Hemisphere** and is labelled °S. Anything lying north of the Equator is in the **Northern Hemisphere** and is labelled °N. The North Pole is 90° N and the South Pole is 90° S.

1) Click on the link below to watch the teaching video.

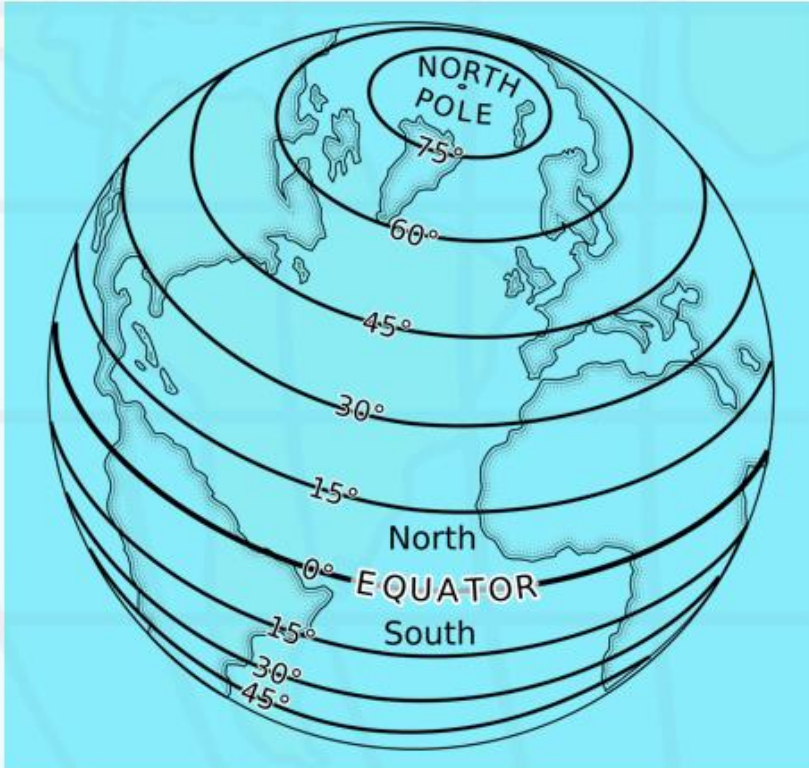
<https://www.bbc.co.uk/bitesize/topics/zvsfr82/articles/zd4rmfr>

2) On the bitesize page again, complete the quiz underneath the teaching video..

<https://www.bbc.co.uk/bitesize/topics/zvsfr82/articles/zd4rmfr>

Lines Around

Latitude - Lines Around the Earth!



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.

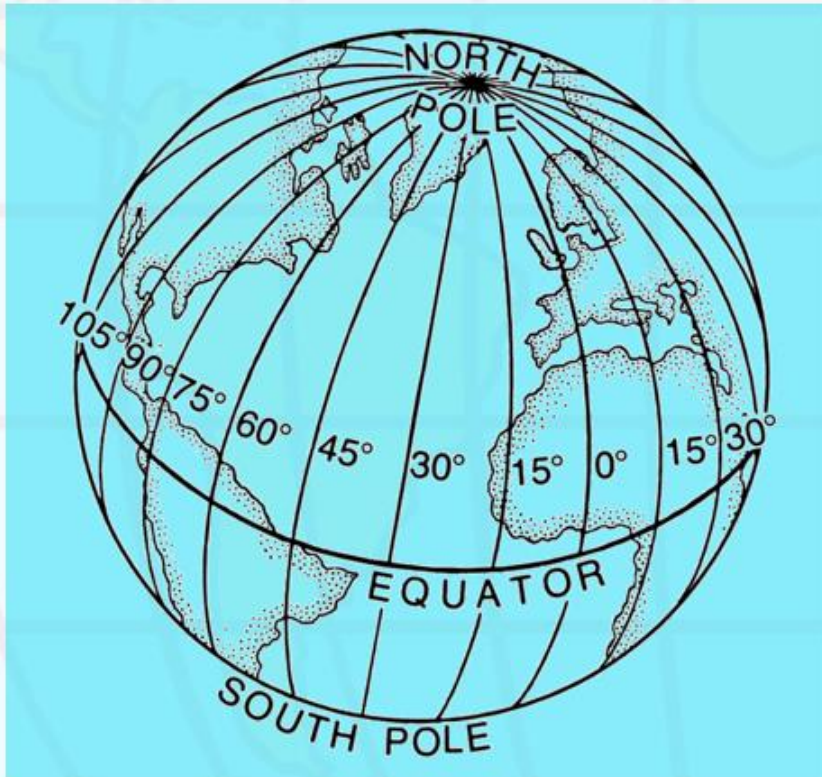
There are 60 minutes in 1 degree.

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.

Lines Over

Longitude - **L**ines **O**ver
the top of the Earth!



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.

Lines of longitude are not equal distances (equidistant) from each other.

Where Are You Now?

We use numbers and letters to create a co-ordinate.

Within the co-ordinate, the $^{\circ}$ stands for degrees and the ' stands for minutes.

The letters relate to north, south, east or west and are shown as capitals.

The latitude is always given first.

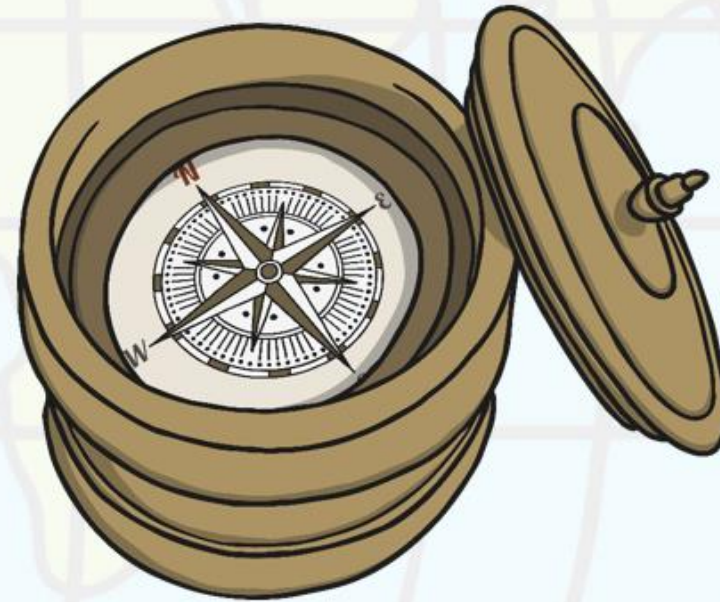
To locate Florida, USA using this principle we would say it has the following co-ordinates: $28^{\circ}00'N$
 $82^{\circ}00'W$.

W is for
west

Longitude

N is for
north

Latitude (this always
comes first!)



Where Are You Now?

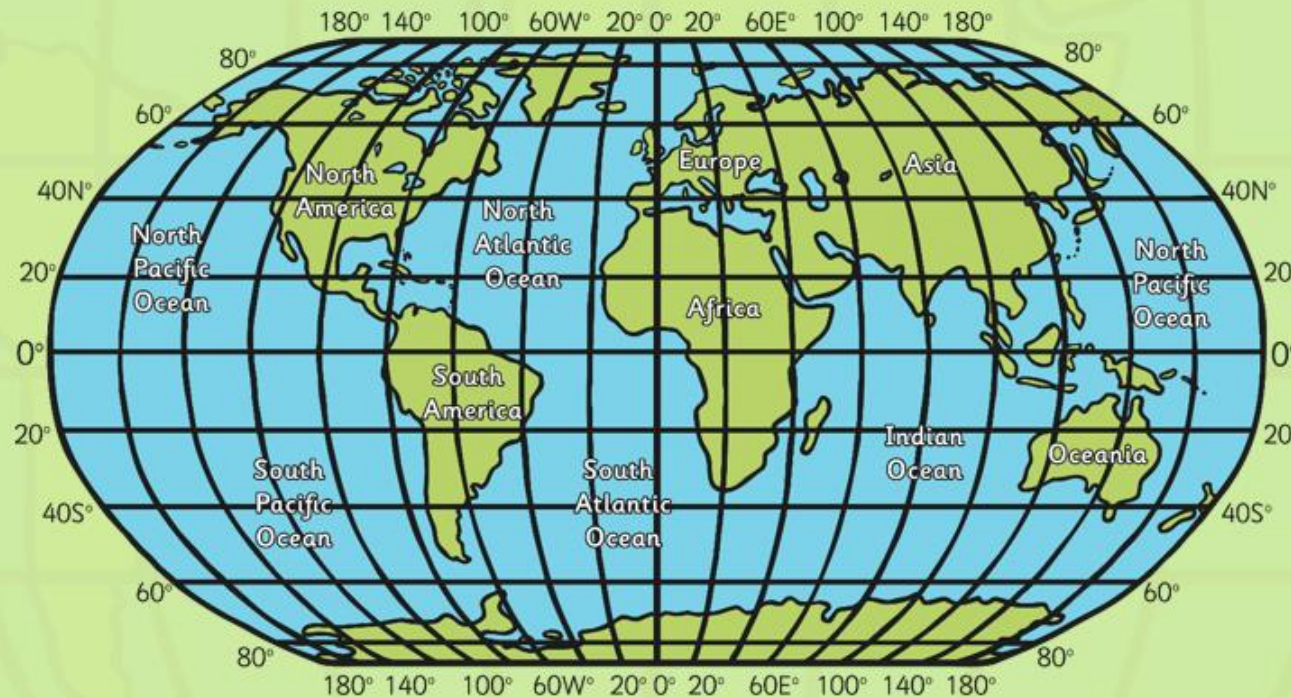
1) Find the co-ordinate for the latitude. The 'N' tells us it will be in the Northern Hemisphere.

Can you find this location on your map?

Which hemisphere, continent and country is it in?

53°38'N 1°46'W

Find the co-ordinate for the longitude. The 'W' tells us we are looking on the west side of the globe.



Sheffield, England

53°38'N 1°46'W



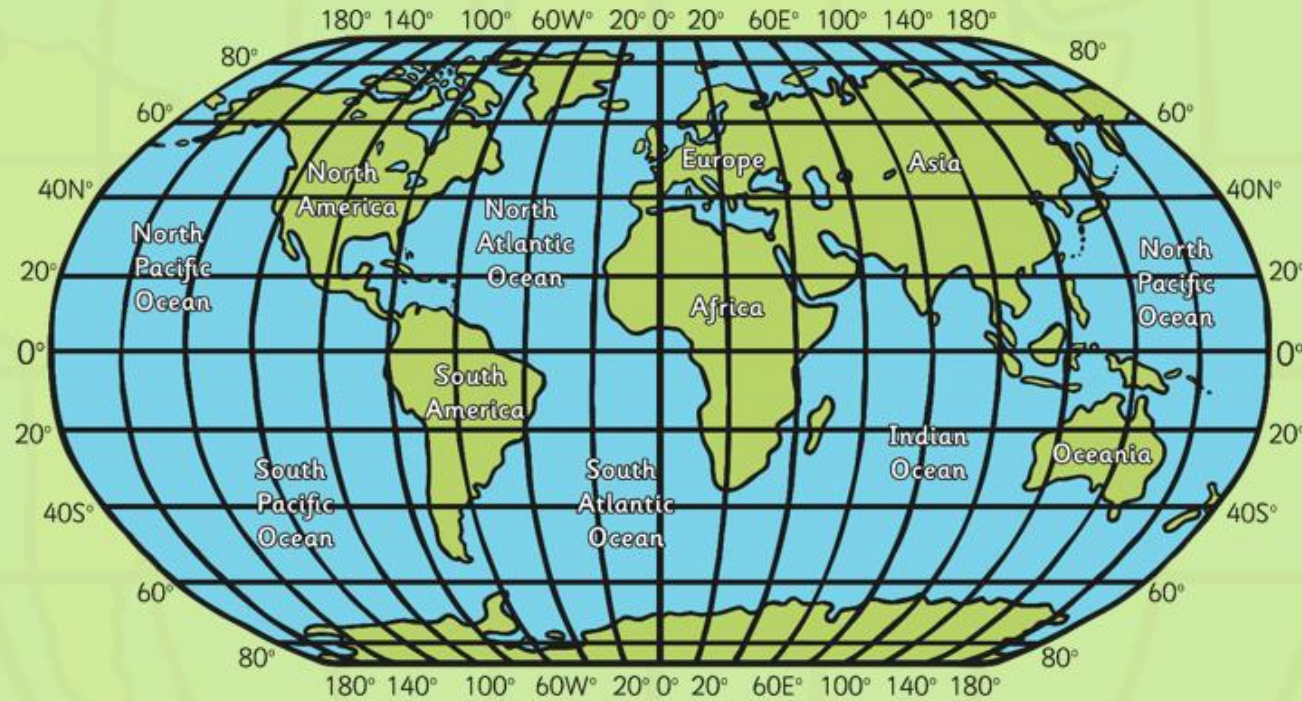
Photograph courtesy of Sheffield City Council

Where Are You Now?

Can you find this location on your map?

8°84'S 13°23'E

Which hemisphere, continent and country is it in?



Luanda, Angola

8° 84' S 13° 23' E



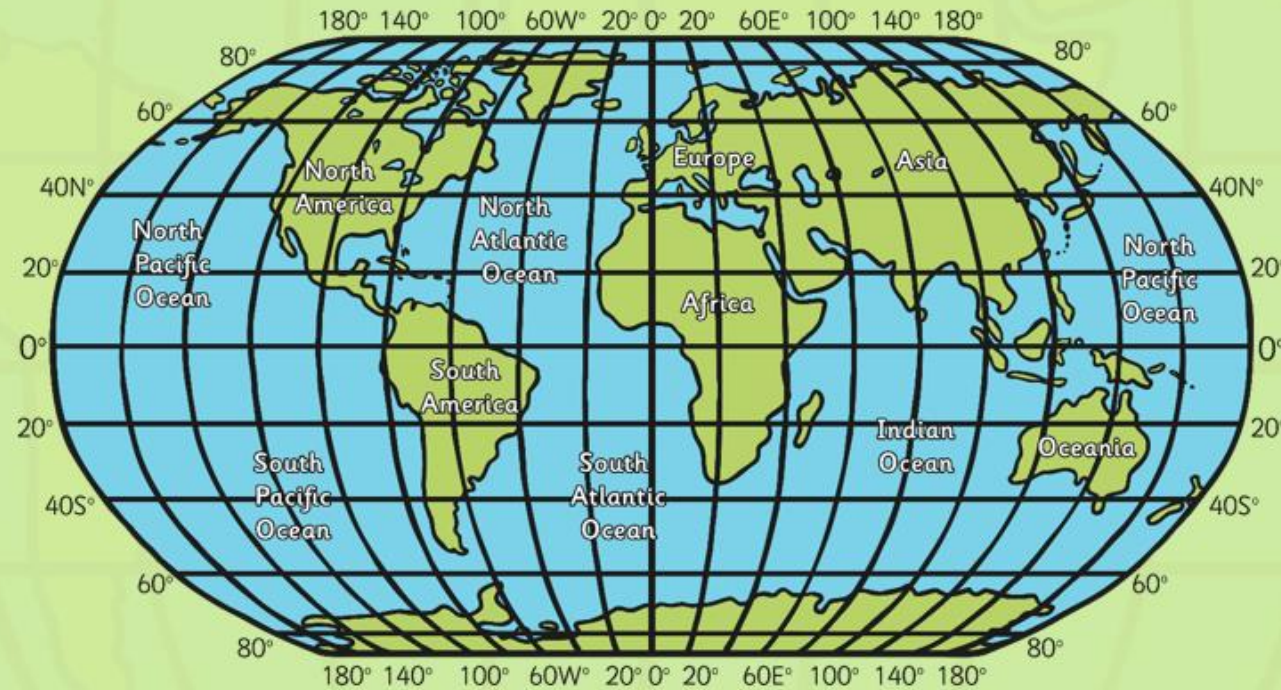
Photo courtesy of Cruks, Wikimedia Commons - granted under creative commons licence - attribution

Where Are You Now?

Can you find this location on your map?

12°28'S 130°50'E

Which hemisphere, continent and country is it in?



Darwin, Australia



12°28'S 130°50'E

Photograph courtesy of Sheffield City Council

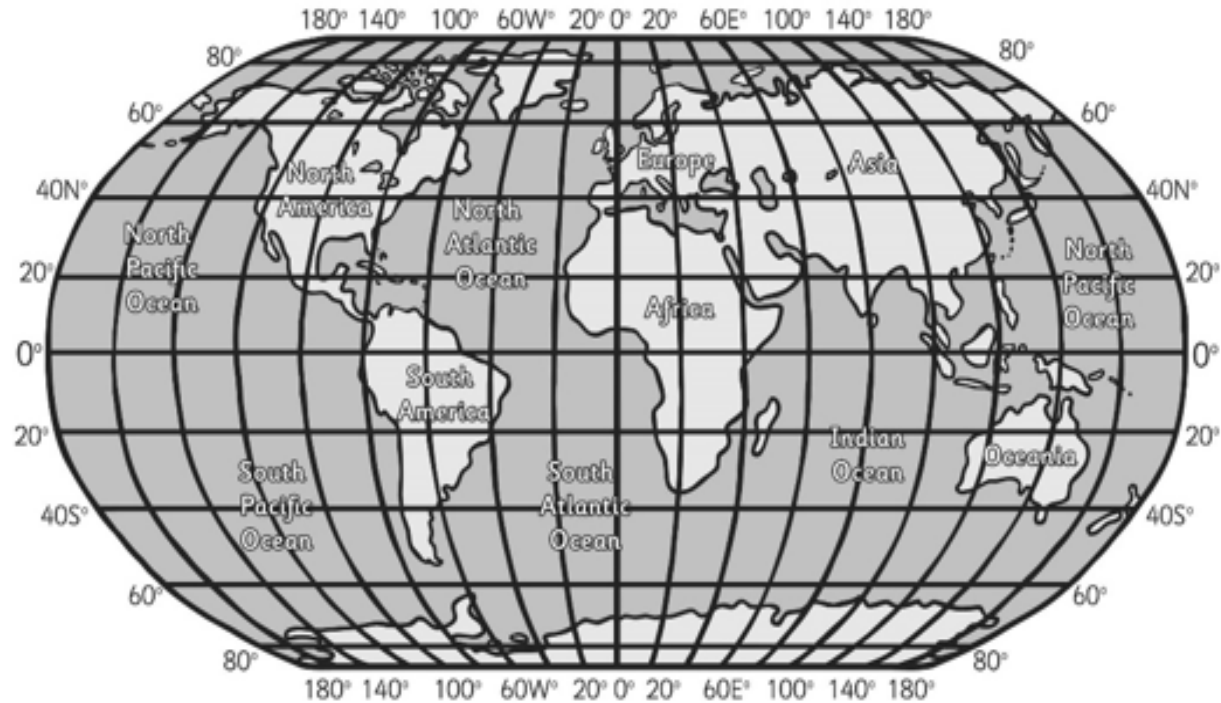


Map Co-Ordinates



Which area of the world would you be in if you were at the following co-ordinates:

- 20°S 80°E _____
- 40°N 20°W _____
- 60°N 40°E _____
- 40°S 0°W _____
- 40°N 100°E _____
- 20°N 160°E _____
- 20°N 20°E _____
- 60°S 140°W _____
- 30°S 140°E _____



Where Should We Go?



Use your atlas.

Can you work out the co-ordinates for these countries?

Peru

Egypt

South Africa

Russian
Federation

Iceland

Sweden

