

Key vocabulary	
time zones	invisible lines that divide the Earth into different areas, each with its own specific time of day. Different places across the earth have different time zones.
latitude	how far north and east a place is from the equator.
longitude	how far east or west a place is from the prime meridian
equator	an imaginary line that at 0° latitude that divides the earth into the northern and southern hemisphere. Starting point for measuring latitude.
prime meridian	an imaginary line at 0° longitude that divides the earth into the eastern and western hemisphere. Starting point for measuring longitude.
hemisphere (half a sphere)	half of the earth, split by either the equator or prime meridian. There are four hemispheres: northern, southern, eastern, western.

Skills - We are geographers!	
1. Use the eight points of a compass.	
2. Identify the position and significance of latitude, longitude, Equator, the hemisphere	
3. Use maps to locate/describe geographical features.	



Year 5 Term 1

Why does time shift?



Key knowledge:

1. Lines of latitude:

- Run east to west across the earth.
- Show how far north or south a place is from the equator measured in ° (degrees).
- 0° is the equator.

Lines of longitude:

- Run north to south across the earth.
- Shows how far east or west a place is measured in °.
- 0° is the Prime Meridian. It cuts through Greenwich in London.

2. The Earth is divided into hemispheres.

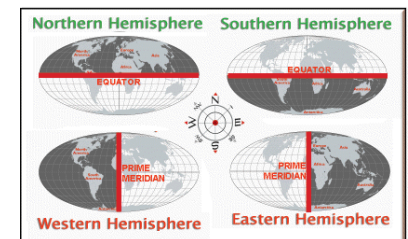
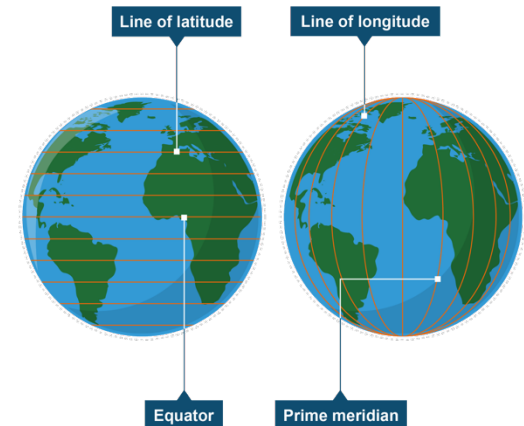
- The equator splits the world into the northern and southern hemisphere. Europe is in the northern hemisphere. Australia is in the southern hemisphere.
- The Prime Meridian splits the world into eastern and western hemispheres. North and South America are in the western hemisphere and Asia is in the eastern hemisphere.

3. Time Zones

- The world is divided into 24 different time zones - one for each hour in a day.
- Time zones are divided by imaginary lines called meridians which go north to south (along the lines of longitude). They aren't always straight, as they curve round country borders.
- Countries to the east of the UK (where the prime meridian cuts through) have a time ahead of the UK and countries to the west are behind.
- Very large countries such as Russia are divided into separate time zones if they cross multiple meridians.

4. Comparing time zones:

- As the Earth rotates on its axis, the sun shines on the side of the Earth that it is facing.
- It is daytime for the parts of the earth facing the sun and nighttime for the other half. The 24 hour time zones help this, keeping daytime hours in the light in most places.



PRISONERS OF GEOGRAPHY

GREENWICH MEAN TIME
Greenwich Mean Time (GMT) is the time at the Royal Observatory in Greenwich in London. It became the centre of world time and the basis of all time zones. The meridian at this longitude is called the prime meridian and is the dividing line between the Eastern and Western hemispheres.

TIME AROUND THE WORLD

The Earth rotates on its axis once every 24 hours. The globe is split into time zones using imaginary lines called meridians. These run from the North Pole to the South Pole, creating 24 time zones.



-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	GMT	+1	+2	+3	+4	+5	+6	+7	+8	+9	+10	+11	+12
Hawaii	Alaska	Los Angeles	Denver	Mexico City	New York	Manaus	Rio de Jan.	Sandwich Is.	Cape Verde	London	Berlin	Cairo	Moscow	Mauritius	Maldives	Omsk	Bangkok	Perth	Tokyo	Brisbane	Sydney	Kiribati

