

Prior knowledge / Key Knowledge

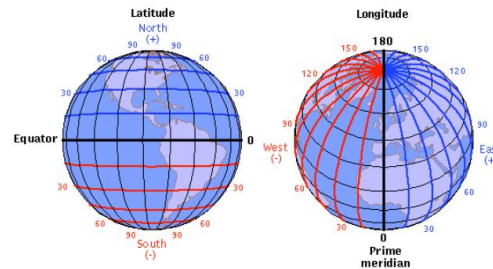
- Accurately reading digital and analogue 12 hour and 24-hour formats.
 - Calculating time differences including crossing the hour.
 - Understanding that the Earth takes 24 hours to rotate and that it spins on its axis.
 - Familiarity with using globes and maps to locate places and oceans.
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- The world is divided into different time zones.
 - Time zones to the east of the Prime Meridian are 'UTC (or GMT) plus'; time zones to the west are 'minus UTC (or GMT)'.
 - Earth is divided into 24 standard meridians, at intervals of 15°, which are the basis for delineating 24 time zones.
 - Time zones are measured from the Prime Meridian at 0° longitude, where the time is Universal Co-ordinated Time (UTC).
 - Webcams are a useful source of information about what is happening in places which are in different time zones.

Time Zones Year 5



Vocabulary

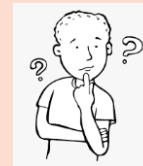
Axis	An imaginary line through the centre of something round which turns.
Coordinates	A set of numbers that are used to indicate the location of a place on a map
Latitude	Lines that 'cut' the Earth horizontally
Longitude	Lines that 'cut' the Earth vertically
Prime Meridian	The line of longitude at 0°
Equator	The line of latitude at 0°
Greenwich Mean Time	The yearly average (or 'mean') of the time each day when the sun crosses the Prime Meridian at the Royal Observatory Greenwich (London)
Co-ordinated Universal Time	The primary time standard by which the world regulates clocks and time.
Antimeridian	The line of longitude that represents both 180° east and west of the prime meridian . It is also known as the '180 th meridian'.



Key Skills

Human and physical geography	Describe and understand time zones and how they work.
Geographical skills and fieldwork	To mark on the flight path from their selected airport in the United Kingdom to another destination within the world and add an annotation to indicate how long the flight takes and through how many different time zones it passes.

Big Questions/Challenging Perceptions



Identify and describe the advantages and disadvantages of the clocks moving forward/backwards in Autumn and Spring.

To compare the time in the city shown on a webcam with the current time in the United Kingdom and calculate the difference