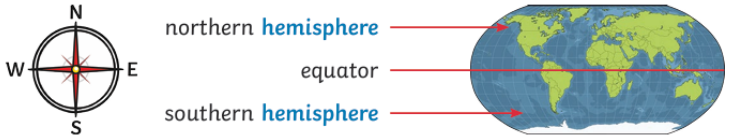
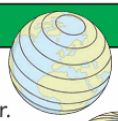
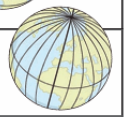
Mountains Hemispheres and Time Zones



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**.

The Tropics

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

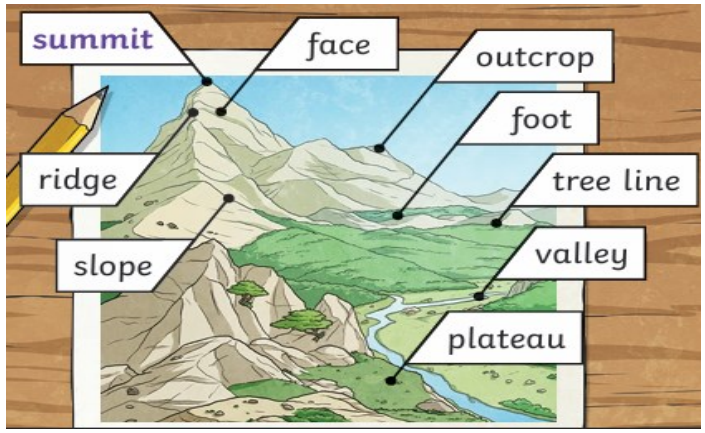


Key Vocabulary

Equator	An imaginary circle around the Earth which divides the northern hemisphere and southern hemisphere.
Hemisphere	A half of the Earth, usually divided by the Equator.
Summit	The highest point of a mountain.
Tectonic Plates	Pieces of the Earth's crust connected together.

Hemispheres

- Northern Hemisphere—includes all of North America, Europe and most of Asia and Africa.
- Southern Hemisphere—includes all of Australia, Antarctica and most of Southern America

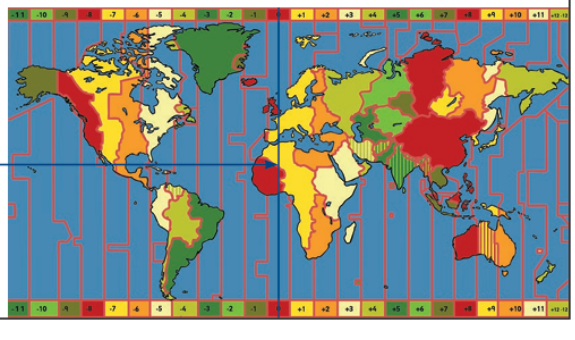


Mountains

- Mountains are a natural part of the landscape with step slopes.
- They rise above 300m.
- they have a summit of at lest 600m.
- Some mountains are found in groups called a mountain range but some can be on their own.
- Not all mountains are single summits.
- Mount Everest is the highest mountain in the world—8848m.

Time Zones

- The Prime Meridian (PM) line divides the earth into the eastern and western **hemisphere**.
- It passes though the Royal **Observatory** in Greenwich, England.
- All time zones start here - Greenwich Mean Time (GMT).
- There are 24 different time zones – one for each hour in the day.
- From GMT to the east = +1 hour for every time zone.
- From GMT to the west = -1 hour for every time zone.
- The International Date Line is on the opposite side of the world from the PM. When it is noon at the Prime Meridian, it is midnight along the International Date Line. This is where midnight occurs first across the globe.



How Are Mountains Made?

Fold mountains	Fault-block mountains	Volcanic mountains	Dome mountains	Plateau mountains
Tectonic plates collide and rock is pushed up.	Cracks in the earth's surface open up, some chunks of rock are pushed up, some down.	Formed around volcanoes and made of layers of ash and cooled **lava**.	Formed when **magma** is forced upwards but doesn't ever flow out of the **crust**.	Materials taken away through erosion leave deep valleys or **gorges** next to high cliffs.
