



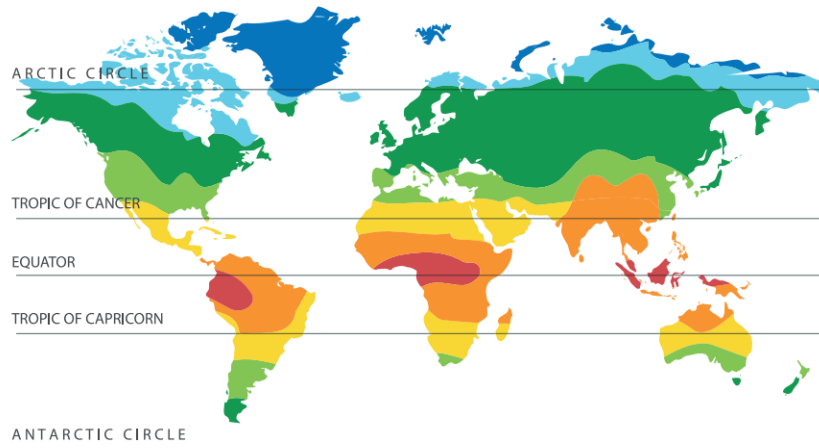
Is Climate Cool?

KNOWLEDGE MAT

YEAR 3
GEOGRAPHY

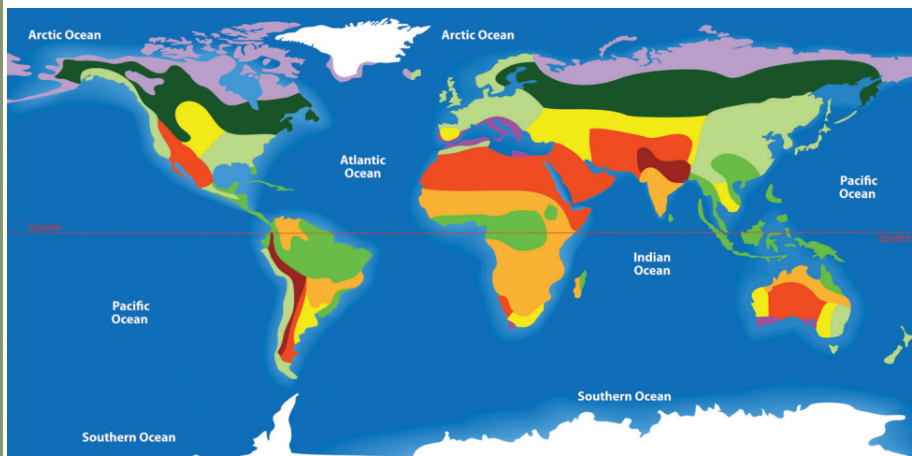
KEY KNOWLEDGE

Climate



- Equatorial zone
- Tropical zone
- Arid zone
- Mediterranean zone
- Temperate zone
- Subpolar zone
- Polar zone

Biomes



- Polar Desert
- Tundra
- Boreal forest
- Tropical Rainforest
- Deciduous forest
- Grassland
- Savannah
- Desert
- Chaparral

KEY VOCABULARY

Climate - The weather conditions in an area over time

Biome - An area with similar plants and animals

Vegetation belt - Smaller regions indicating where vegetation grows

Polar and subpolar zone - Areas in the north and south of the globe

Temperate zone - Areas of mild temperature

Equatorial and Tropical zones - Area in the centre of the globe with a hot temperature

Arid zone - Areas north and south of the tropics

Rainforest - A thick forest that has a lot of rain

Savannah - A grassy plain in tropical and subtropical regions with definition

Desert - A waterless area with little or no vegetation

Chaparral - An area that has mainly shrubs and thorny bushes

Grassland - A large open area covered with grass

Deciduous forest - A forest that has trees that lose their leaves each year

Boreal forest - A forest made up of coniferous plants in cold areas

Tundra - A flat, cold, treeless area



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Challenges of a biome for humans



Rainforest:

- It can rain more than 250cm a year
- It is difficult to grow crops
- Diseases spread easily



Savannah:

- It rarely rains
- It is difficult to find water
- It is difficult to grow crops



Desert:

- It is often dangerously hot or cold
- It is difficult to find water
- There are limited food sources



Chaparral:

- Fires can easily start
- The winter is very wet
- The summer is very dry



Grassland:

- Fires can easily start
- Limited building materials
- Droughts common



Deciduous forest:

- Limited open spaces
- Weather limits when plants can grow
- Transport is difficult



Boreal forest:

- Limited open spaces
- Transport is difficult
- Cold in winter



Tundra:

- Dangerously cold in winter
- Poor nutrients in the soil
- It rarely rains

Overcoming the challenges of a biome

Deciduous forest Lake District, United Kingdom

In many parts of the UK, including the Lake District, deciduous forest has been cut down and cleared (on flat ground). This makes space for the growing of crops and the grazing of animals.



Grassland Southern Spain

In Southern Spain, in the summer months when droughts are common, water is transported from lakes and reservoirs to keep the soil fertile and allow crops to grow.

Biomes in Europe



- Grassland
- Deciduous forest
- Boreal forest
- Tundra
- Chaparral