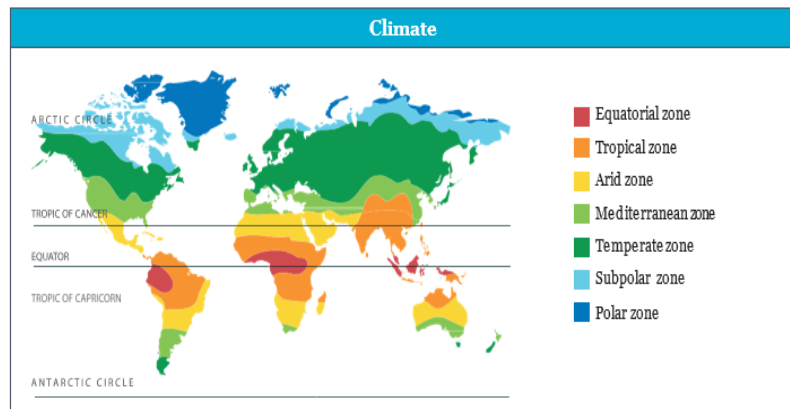


Climate Zones Knowledge Organiser

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

Definition	
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
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



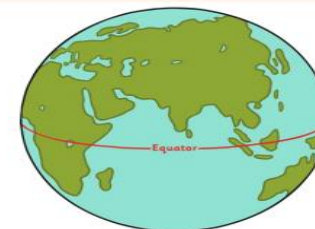
Climate Zones

The weather changes in different parts of the world. Where there are similar weather patterns this is known as a **climate**.

At the top of the Earth there is an arctic climate and some of the coldest temperatures in the world are found here.

Temperate climates are found a bit further south, and as you approach the equator you find Mediterranean and **desert** climates. Some of the hottest places on Earth are found here, and few people live in this climate.

At the equator there is a tropical climate, and travelling south of the equator it gets cooler again before reaching the Antarctic.



Challenges of a climate zone for humans

	<p>Rainforest:</p> <ul style="list-style-type: none"> • It can rain more than 250cm a year • It is difficult to grow crops • Diseases spread easily
	<p>Savannah:</p> <ul style="list-style-type: none"> • It rarely rains • It is difficult to find water • It is difficult to grow crops
	<p>Desert:</p> <ul style="list-style-type: none"> • It is often dangerously hot or cold • It is difficult to find water • There are limited food sources
	<p>Grassland:</p> <ul style="list-style-type: none"> • Fires can easily start • Limited building materials • Droughts common
	<p>Deciduous forest:</p> <ul style="list-style-type: none"> • Limited open spaces • Weather limits when plants can grow • Transport is difficult
	<p>Boreal forest:</p> <ul style="list-style-type: none"> • Limited open spaces • Transport is difficult • Cold in winter
	<p>Tundra:</p> <ul style="list-style-type: none"> • 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.