

# Learning Organiser: Why are jungles so wet and deserts so dry?

## Key objective

To understand how different areas of climate known as biomes give rise to very distinctive communities of plants and animals.

## Important things I will know and understand

The difference between weather and climate.

How temperature and precipitation vary in the UK. The location and features of the main climate regions of the world.

How climate affects the landscape of different environments.

What a biome is and the name and location of the world's main biomes.

The flora and fauna of the main biomes of the world.

The physical features of the Atacama Desert.

Why Arica in Chile is the driest inhabited place in the world.

Why Manaus in Amazonia is one of the wettest places in the world.

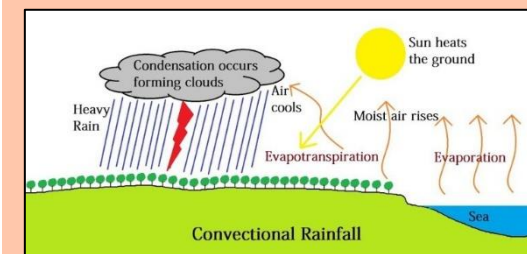
## Important geographical techniques I will use

Statistical representation	Interpreting tabular data and constructing climate graphs.
Mapwork - Interpreting and annotating thematic distribution maps	Political, relief, population density, pictorial and distribution maps.
Imagery	Terrestrial, aerial and satellite photographs and GIS Google Earth Pro.

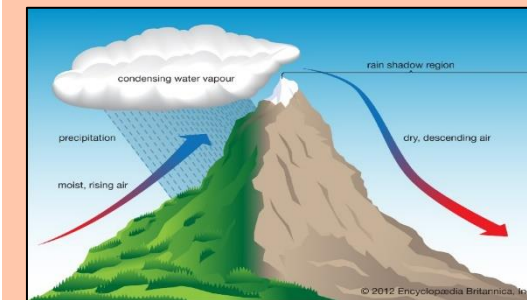
## Important concepts I will understand

Weather	what's happening in the atmosphere at a given time e.g., sunshine and wind
Climate	the average weather conditions of a place over a long period of time
Biome	a large region with a particular climate and specific plants and animals
Distribution	the pattern of where physical and human features are located
Environment	the particular physical and human features which make places distinctive
Interdependence	how people and environments are connected and rely on each other
Interaction	the links or connections within and between different natural and human processes
Location	the position of something on Earth
Processes	the natural events and human actions that bring about change in an environment

## Important physical processes I will understand

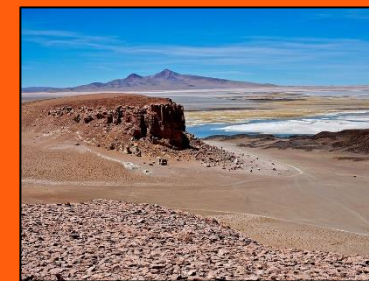


Convectional rainfall

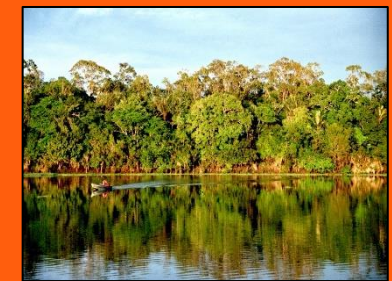


Relief rainfall

## Important places I will investigate



Atacama Desert



Amazonia



Manaus in Brazil



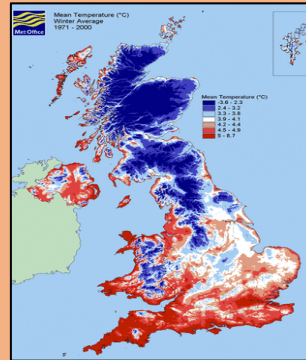
Arica in Chile

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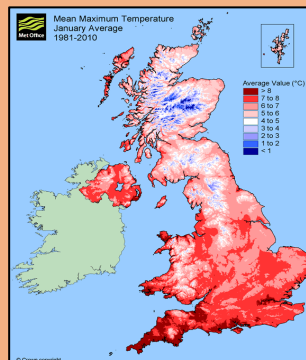
## Important vocabulary I will learn

Biodiversity	the variety of plants and animals living in a particular place
Ecosystem	the community of living things found in a particular area which depend upon each other
Habitat	the natural home of a living thing
Pattern	how objects are arranged or laid out on the Earth's surface
Prevailing wind	the direction from which a wind most frequently blows
Climate graph	a graph showing the average pattern of temperature and precipitation over the course of a year
Precipitation	any kind of moisture that falls from the clouds e.g., rain, snow, dew
Flora	all of the plant life of a place
Fauna	all of the animal life of a place
Rain forest	dense evergreen woodland found in tropical regions around the Equator
Desert	an environment that is very dry because it receives very little precipitation
Convictional rain	when warm moist air rises to a height where its water vapour condenses to rain
Relief rain	as air rises over mountains it cools causing water vapour to condense as rain droplets
Drought	a very long period of time without any precipitation
Adaptation	how living things are particularly suited to the environment in which they live

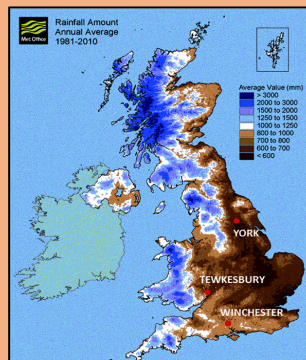
## Maps I will interpret



Average winter temperatures in the UK



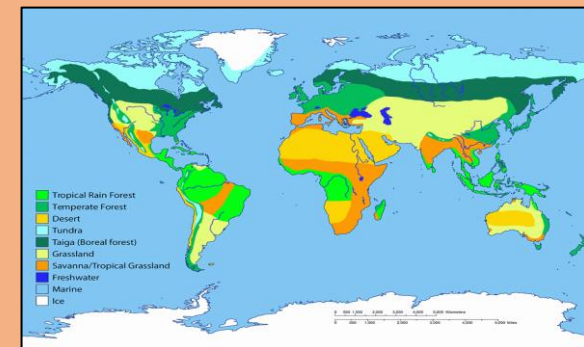
Average summer temperatures in the UK



Average precipitation across the UK

## Important subject skills I will apply

Describing	giving an account of something
Selecting	choosing the information most relevant
Reasoning/speculating	thinking and forming ideas about something without necessarily firm evidence to back it up
Synthesising	bringing together a range of ideas and facts from different sources to explain something
Explaining	showing understanding of how or why something is the way it is
Empathising	placing yourself in another's position to better understand their actions



Distribution of the world's biomes



Political map of South America



Physical map of South America