

B KNOWLEDGE ORGANISER -



Kev Vocabulary

Biome

Region

Rainforest

Savannah

Tundra

Forest

Grassland

Desert

Polar Desert

Climate

Landscape

Plants

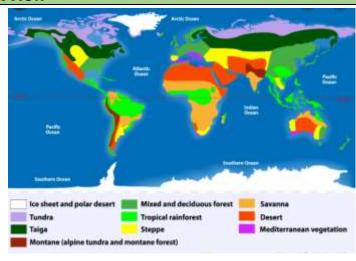
Fertile

Animals

Moderation

Overview

- -Biomes are areas of our planet in which there are similar <u>climates</u>, <u>landscapes</u> and <u>living things</u> (animals and plants).
- -There are many different types of biomes, including rainforests, deserts, polar deserts, temperate forests and savannahs.
- -The things that live within each biome depends on how warm or cold it is, how wet or dry it is, and how fertile the soil is.
- -Both plants and animals within biomes depend upon one another to stay alive - plants are food for many animals, and animals help to spread pollen and seeds for plant reproduction.



A map showing the different types of biomes across the world.

Answers to the Important Questions

What are biomes?

- -Biomes are large areas of Earth that have similar climates, landscapes and living things.
- -For example, a rainforest biome is characterised by having a warm, wet climate, and lots of high trees (living things).

What causes biomes?

- -The type of biome that occurs somewhere is generally influenced by three different factors:
 - -The temperature of the place;-How much rainfall there is;
 - -The landscape (e.g. altitude, soil type, etc.)

How do plants and animals live in their biomes?

-The plants and animals of each biome have traits that help them to survive in their biome. Plants and animals that live in smaller areas of a biome depend on each other to survive. These smaller areas are called ecosystems. Each biome has many ecosystems.

What biome is in the UK?

The main biome for the UK is a temperate forest. The UK's temperate climate is the predominant causes of this. The climate is not too hot or cold and it is not too dry or wet. There are some local variations.

High Temperature Persert SAVANNAH GRASSLAND STEPPE TAIGA Low Temperature

Land Biomes Tropical rainforests are hot and wet all year around. They so named because they generally lay within the **Rainforests** Tropics of Cancer and Capricorn. They are home to half of the plants and animals on the planet. Deserts are extremely hot and dry all year around. Only few plants grow here, e.g. cacti/shrubs, because **Deserts** the soil is too shallow and rocky. Animals who live here often come out after dusk, when it is cooler. Savannahs are hot all year around, with a long dry season and a short (but sometimes severe) rainy Savannahs season. Grasses, shrubs and occasional trees grow here, but there is an abundance of animal life. Temperate means 'in moderation' (not to extremes) and so these forests are in places that are not too hot, cold, dry or wet. There are four distinct seasons: **Temperate Forests** spring, summer, autumn and winter. There are often many deciduous trees, which lose their leaves in the winter. The UK contains temperate forest. Steppes are grassland habitats are places that receive less rain than forests but more than deserts. Steppe Often, these areas are far from oceans, or are sheltered from rains by mountains. In tundra regions, there is very little rain or snow, and the temperatures are freezing – winters are long and **Tundra** summers are short. Part of the soil is frozen yearround, however in summer some mosses can grow.

Aquatic Biomes		
Marine		The marine biome includes the saltwater oceans, and so it is the largest biome on Earth (approx. 70% of the world's surface). Marine biomes may include shallow and deep oceans and estuaries.
Freshwater		Freshwater biomes have less salt than marine biomes. They include ponds, lakes, streams, rivers and wetlands. Freshwater systems are found all over the world. A vast array of wildlife live in freshwater, e.g. some species of fish, reptiles, mammals and birds.
Coral Reef		Coral looks like rocks, but are actually tiny little organisms called polyps. They form in shallow, clear water which receive lots of sun. Although there are few corals reefs (compared to the other aquatic

Biomes Key Facts

On land, most plant and animal species are found in the rainforest biome.

The word tundra comes from the Finnish word 'tunturia' which means 'treeless land.'

Many of the trees in the temperate deciduous forest contain sap which keeps their roots from freezing during winter.

A grassy biome may be called 'grassland', 'steppe', or 'savanna' depending upon the temperature. Areas of high altitude (e.g. mountains) have a different kind of biome called 'montane.'

biomes), 25% of all marine species live in coral reefs.

Although daytime temperatures in desert biomes are normally hot, they can get extremely cold at night.