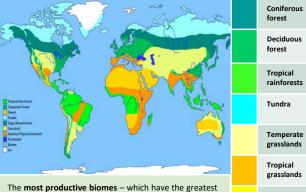
What is an Ecosystem?		Biome's climate and plants					
		Biome	Location	Temperature	Rainfall	Flora	Fauna
em's Components		Tropical rainforest	Centred along the Equator.	Hot all year (25-30°C)	Very high (over 200mm/year)	Tall trees forming a canopy; wide variety of species.	Greatest range of different animal species. Most live in canopy layer
_		Tropical grasslands	Between latitudes 5°- 30° north & south of Equator.	Warm all year (20-30°C)	Wet + dry season (500-1500mm/year)	Grasslands with widely spaced trees.	Large hoofed herbivores and carnivores dominate.
		Hot desert	Found along the tropics of Cancer and Capricorn.	Hot by day (over 30°C) Cold by night	Very low (below 300mm/year)	Lack of plants and few species; adapted to drought.	Many animals are small and nocturnal: except for the camel.
	Food Web and Chains	Temperate forest	Between latitudes 40°- 60° north of Equator.	Warm summers + mild winters (5-20°C)	Variable rainfall (500- 1500m /year)	Mainly deciduous trees; a variety of species.	Animals adapt to colder and warmer climates. Some migrate.
Lion Crackel	Simple food chains are useful in explaining the basic principles behind ecosystems.	Tundra	Far Latitudes of 65° north and south of Equator	Cold winter + cool summers (below 10°C)	Low rainfall (below 500mm/ year)	Small plants grow close to the ground and only in summer.	Low number of species. Most animals found along coast.
Com Rabbil	Food webs consist of a network of many food chains interconnected together.	Coral Reefs	Found within 30° north – south of Equator in tropical waters.	Warm water all year round with temperatures of 18°C	Wet + dry seasons. Rainfall varies greatly due to location.	Small range of plant life which includes algae and sea grasses that shelters reef animals.	Dominated by polyps and a diverse range of fish species.
	extem is a system in which organist with their environments These are non-living, such as plant These are living, such as plant Flora Plant life occurri Fauna Animal life of an	Animal life of any particular region or time. Fauna Animal life of any particular region or time. Simple food chains are useful in explaining the basic principles behind ecosystems. Food webs consist of a network of many food chains interconnected	Animal life of any particular region or time. Fauna Animal life of any particular region or time. Food Web and Chains Simple food chains are useful in explaining the basic principles behind ecosystems. Food webs consist of a network of many food chains interconnected	Image: state in which organisms interact with each other and with their environment. Biome Location Image: state in which organisms interact with each other and with their environment. Tropical rainforest Centred along the Equator. Image: state in which organisms interact with each other and with their environment. Tropical rainforest Centred along the Equator. Interest in these are non-living, such as air, water, heat and rock. Tropical grasslands Between latitudes 5°- 30° north & south of Equator. Interest in the early interest in the explaining in a particular region or time. Hot desert Found along the tropics of Cancer and Capricorn. Flora Plant life of any particular region or time. Hot desert Between latitudes 40°-60° north of Equator. Fauna Animal life of any particular region or time. Temperate forest 60° north of Equator. Simple food chains are useful in explaining the basic principles behind ecosystems. Found within 30° north and south of Equator Found within 30° north - south of Equator in many food chains interconnected together. Found within 30° north - south of Equator in the south	Answer Sime Location Temperature with their environment. Tropical rainforest Centred along the Equator. 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Biomes

Emergent

Forest Floo

A biome is a large geographical area of distinctive plant and animal groups, which are adapted to that particular environment. The climate and geography of a region determines what type of biome can exist in that region.



biomass- grow in climates that are hot and wet.

Laver

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- W		-	
_			



Tropical rainforest cover about 2 per cent of the Earth's surface yet they are home to over half of the world's plant and animals.

Temperate grasslands grasslands

inforests

- res rarely fall below 22°C.
- e of clouds, temperatures rarely rise
- ve heavy showers.
- uds insulating, temperature drops.

Adaptations to the rainforest Orangutans Large arms to swing & support in the tree canopy. **Drip Tips** Allows heavy rain to run off leaves easily. Lianas & Vines Climbs trees to reach sunlight at canopy.

What are the causes of deforestation?

	Agriculture 00	
widely reported cause of	• Large scale 'slash and burn' of	

•

•

Tourism

- Most widely reported cause of destructions to biodiversity. • Timber is harvested to create
- items such as furniture and paper.
- Indigenous tribes communities destroyed.

Mineral Extraction

Logging

- Precious metals are found in the rainforest.
- · Areas mined can experience soil and water pollution.
- Indigenous people are moved from their land due to roads being built.

Energy Development

- The high rainfall creates ideal conditions for hydro-electric power (HEP).
- Dams are used for creating energy in this developing country, however, both people and environment have suffered.

Tourism is resulting in the building • of hotels in extremely fragile areas.

land for ranches and palm oil.

soil erosion increasing due to the

Increase in palm oil is making the

Increases carbon emission.

large areas of exposed land.

• Tourism has exposed animals to human diseases.

Road Building

soil infertile.

• Roads are needed to bring supplies and provide access to new mining areas, settlements and energy projects.



\$ 30%	Layers of the	Climate of Tropical Rai		
Layer En	Emergent	Highest layer with trees reaching 50 metres.	Evening temperatureDue to the presence	
anopy Laver	Canopy	most of the cuplight and rainfall	above 32°C.Most afternoons haveAt night with no clout	
A Ship	U-Canopy	Consists of trees that reach 20 metres high.		
Understory Layer	Shrub	Lowest layer with small trees that have		

adapted to living in the shade.

Hot deserts.



Tropical Rainforest Biome
or about 3 per cent of the Earth's surface yet they are home to

Distribution of Tropical Rainforests

Tropical rainforests are centred along the Equator between the Tropic of Cancer and Capricorn. Rainforests can be found in South America, central Africa and South-East Asia. The Amazon is the world's largest rainforest and takes up the majority of northern South America, encompassing countries such as Brazil and Peru.

н	2104mm of annual rainfall