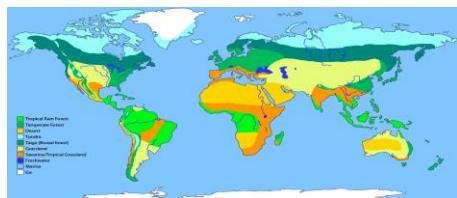


EARTH'S BIOMES



A biome is a **large geographical area of distinctive plant and animal groups**, which are adapted to that particular environment

Key words

Biotic = A living organism (part of the ecosystem)

Abiotic = A non-living part of the ecosystem.

Biodiversity = A large variety of different plant and animal species

SOUTH AMERICA



S. America has **12 countries** and 2 dependencies. It has the Atlantic Ocean to the east and Pacific Ocean to the West.

The largest biome in South America is **Tropical Rainforest**. This is due to the climate being mainly warm (25 degrees Celsius +) and wet (>1500mm rain)

AMAZON RAINFOREST DEFORESTATION

CAUSES

Logging	Population Growth
<ul style="list-style-type: none"> • Most widely reported cause of destructions to biodiversity. • Timber is harvested to create commercial items such as furniture and paper. 	<ul style="list-style-type: none"> • Brazilin government offer money to poor residents of overcrowded cities to move to the rainforest. • Land is cleared for use as farmland.
Farming	Road Building
<ul style="list-style-type: none"> • Land used for commercial cattle farming. • Land used for commercial palm oil plantations. • Large scale 'slash and burn' of land for cattle and palm oil. • Increases carbon emission. 	<ul style="list-style-type: none"> • Roads are needed to bring supplies and provide access to new mining areas, settlements and energy projects. • In Brazil, logging companies use an extensive network of roads for heavy machinery and to transport wood.

EFFECTS

Economic benefits	Environmental problems
<ul style="list-style-type: none"> - Brazil economy is being improved by the trading of hardwood, tropical fruits and expensive minerals. - Deforestation is creating jobs in an area which has problems with unemployment. 	<ul style="list-style-type: none"> - The Amazon Rainforest is the world's largest carbon sink. - Loss of biodiversity and risk of extinction to some species. - Will contribute to climate change and extreme weather events.

SOLUTIONS

Managing the rainforest

- | | |
|---|--|
| <ul style="list-style-type: none"> - Ecotourism - creates jobs without large scale deforestation - Agroforestry - Small scale farming which works with the rainforest | <ul style="list-style-type: none"> - Selective logging - ensures that only certain trees are chopped down - not all - Forest reserve - creates a designated area that is protected by the government |
|---|--|

MATHS SKILLS

WRITING ABOUT DATA:

Positive correlation

An increase in one set of data leads to an increase in another set of data. *E.g. There is a positive correlation between an increase in GDP and the number of doctors per person.*

Negative correlation

An increase in one set of data leads to a decrease in another set of data. *E.g. There is a negative correlation between an increase in GDP and infant mortality.*

CALCULATE:

MEAN (average)

Add up all the values, then divide by how many values there are

RANGE

Take the smallest value away from the largest value

MODE

Find the value that appears the most

MEDIAN

Order the values from smallest to largest, then find the value that is in the middle of the list

ENGLISH SKILLS

Connectives	Opinion phrases	Geographical key words
therefore moreover nevertheless on the other hand because this means that this suggests whereas however likewise nonetheless seemingly despite this so	in my opinion in conclusion conclusively overall clearly to a large extent to a small extent arguably undoubtedly the evidence suggests in summary ultimately finally for this reason	social economic environmental political local global national international north/south/east/west impact/effect response immediate long-term sustainable

CATHOLIC SOCIAL TEACHINGS

In this topic, we will learn about how important and fragile different ecosystems are, and how we are responsible for looking after the planet. We will think about how we can show **stewardship** of the Earth.

Glossary

Catholic Social Teaching

In this topic, we will learn about how important and fragile different ecosystems are, and how we are responsible for looking after the planet. We will think about how we can show stewardship of the Earth.