

Rattled Rainforests

6 Global Ecosystems:

- 1. Coral Reefs
- 2. Grassland
- 3. Tropical Rainforest
- 4. Temperate Rainforest
- 5. Hot Desert
- 6. Polar

A 'good' is a product which can be bought and sold. It has a weight and a price. Usually, goods are traded between countries.

A '**service**' is the role something plays. It usually affects people, money or the environment.

Goods	Services
Nuts	Reducing flood risk
Medicine	Protects soils
Oils	Agriculture
Wood	Carbon sink
Vanilla	Tourism
Coconuts	Habitats
Сосоа	Maintains the water
Fruits	cycle

Flora = plants/vegetation Fauna = animals



Sloth



Jaguar

Buttress

Roots



Lianas

conditions in which they live.





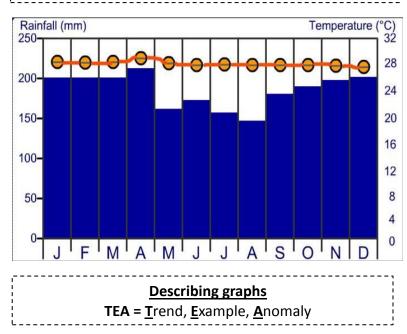
An ecosystem is a community of plants and animals and the environment in which they live. Ecosystems contain both living (biotic) and non-living (abiotic) elements.

<u>Biotic</u> elements are plants, animals, insects and birds which depend on each other for food.

Abiotic elements include the climate, soils and rocks. This non-living environment provides nutrients, warmth, water and shelter for the living parts of the ecosystem.

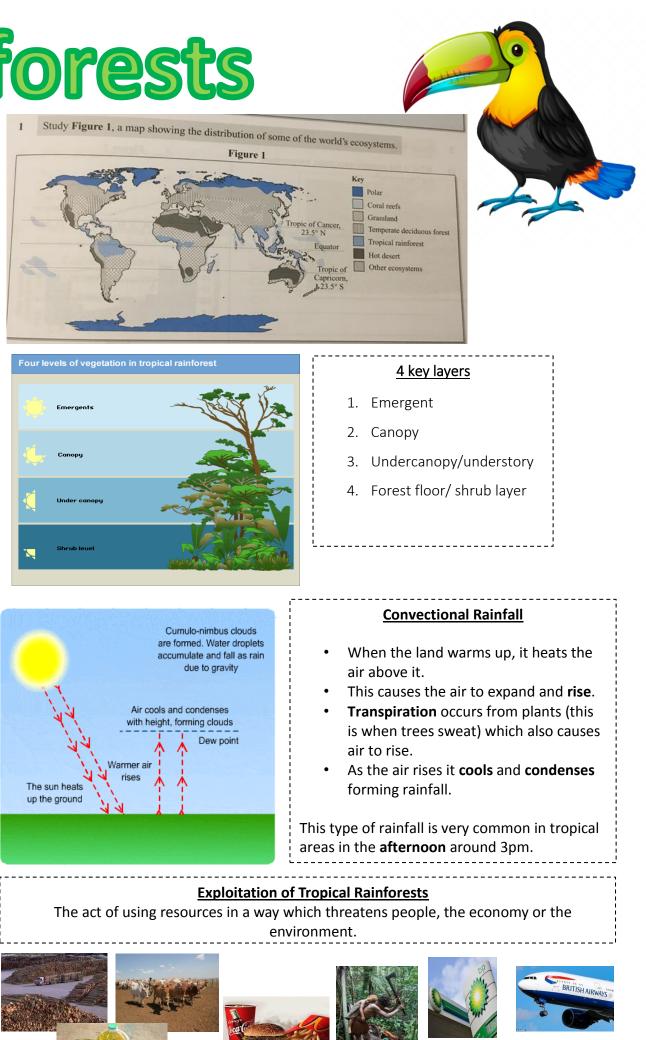
Tropical Rainforests: Climate

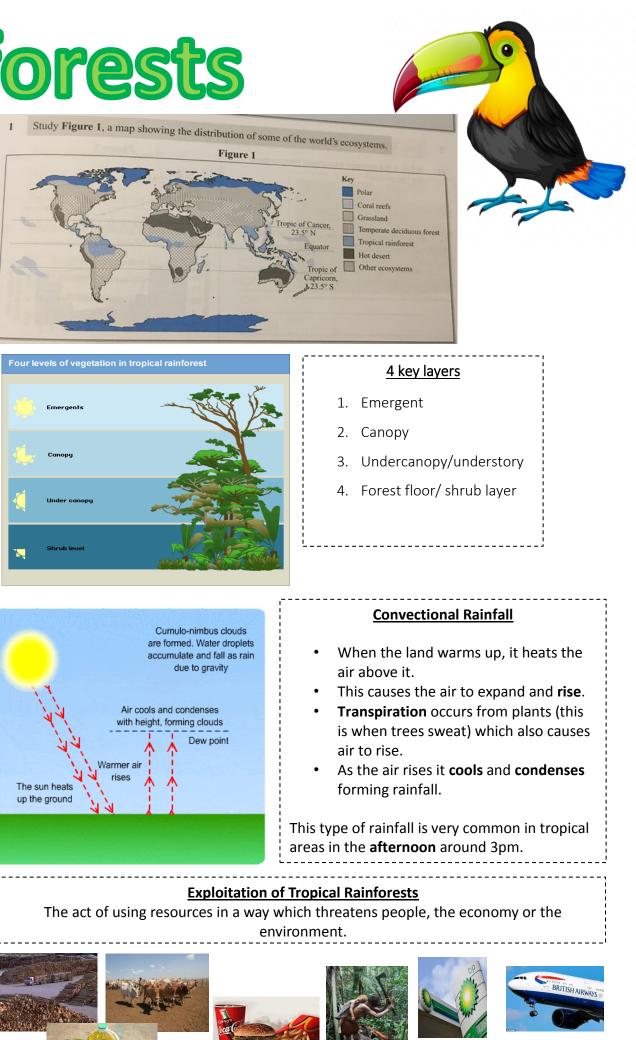
- High annual temperatures (26-28 ° C)
- 2°C temperature range •
- Fluctuating but high rainfall
- Over 2000mm annual rainfall

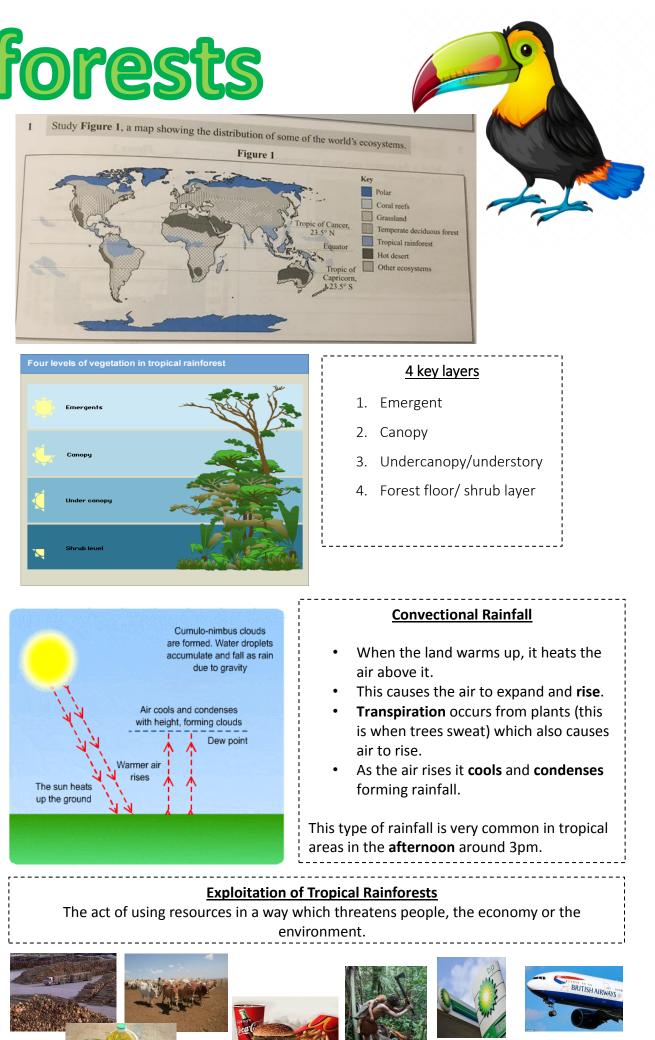


Importance of Tropical Rainforests

- Timber- lucrative resource on the international market
 - Periwinkle- medical plant to reduce Leukaemia deaths
- Carbon sink- trees take in carbon dioxide, reducing climate change/global warming
- Habitats for a variety of species of flora/fauna
- Home to indigenous people
- 3000 fruits
- Palm oil- found in many everyday products









Fan Palm

Strangler Fig

- Adaption = A change to suit the







Impacts of Deforestation

- 1. Increase CO₂ in atmosphere leading to increased global warming
- 2. Animals habitats lost
- 3. Endangered species become extinct
- 4. Tribes lose their homes and way of life
- 5. Less chance of finding cures to diseases such as cancer
- 6. Increased flooding as there are less trees to intercept water
- 7. Change in traditional way of life as tourists move into the area
- 8. Infertile land as soil is over used and loses all of its nutrients
- 9. Brazil can improve its economy
- 10. Polluted river due to oil extraction
- 11. People of Brazil may have higher standards of living as the government can use the money they make from the rainforest to improve services
- 12. Local people rarely benefit from economic activity-most profits go to large multi-national companies

Sustainable management = meeting today's needs whilst protecting the environment and resources for the future.

These areas are protected, with no development or change of land use allowed. This helps to stop

Eco Tourism

National Parks

destruction of the rainforest.

Homes built on stilts to avoid flooding and to circulate heat

Hunting for food with fish being the main source of protein

Subsistence farming, cattle ranching and nomadic farming are common

In recent years, rainforests have been advertised as destinations for ecotourism. This aims to introduce people to the natural world without causing any environmental damage.

Afforestation

Education

Monitoring

Forest Reserves

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Afforestation is the opposite of deforestation and is where the trees which have been cut down are replaced by other trees. The replacement trees can take a long time to grow and build up the canopy and so in the meantime, the soil can still suffer from erosion.

By educating those involved in the destruction of the rainforest about the consequences/impact of their actions, it may reduce their involvement. If you educate people on how to manage the rainforest, this may also help.

Use of satellite technology and photography to check that any activities taking place are legal and follow guidelines for sustainability. This can reduce unnecessary destruction of the rainforest.

These are areas of tropical rainforests which are protected from exploitation. There are rules and restrictions about which areas of land can be used for farming, logging, mining and building roads.

How Tribes Use the Rainforest to Survive

Tribal Face Painting

Used for many motives such as hunting, religion, culture, emotion, camouflage or to scare away the enemy. Indigenous people of the Amazon have said that "in this power to change ourselves, we demonstrate our humanity and set ourselves apart from the world of the animals".



Jewellery made from bones and teeth



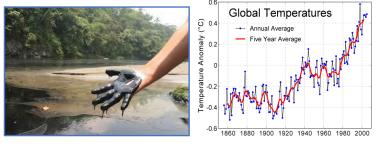














Advantages:

- lodges
- educate others **Disadvantages:**

- drinks, alcohol and cigarettes).
 - Litter





Ecotourism in Ecuador- Yachana Lodge

Case Study

• Local indigenous people have a more reliable income working in

- Lodges are sustainable as they use solar energy for electricity Lodges collect rainwater for toilets and showering
 - Tourists are taken on guided tours, sticking to designated paths
- Money from tourism is used to conserve the rainforest and to

• Tourists have a high carbon footprint from flying to South America Erosion on footpaths causing soil/flora damage • Introduction of western products to native people (for example, soft

