

Year 9 Ecosystem Work

Glossary of key words

Key Word	Definition
Rainforest structure	The rainforest consists of several layers. Each layer has plants and animals which are adapted to the conditions found there.
Rainforest function	Rainforests are often called the lungs of the planet for their role in absorbing carbon dioxide, a greenhouse gas, and producing oxygen, upon which all animals depend for survival.
Resilience	The capacity of an ecosystem to return to its normal state after changes (e.g. climate change).
Transpiration	Transpiration is the evaporation of water / loss of water from plants, especially leaves.
Biodiversity	Biodiversity is a measure of how many different species live in an ecosystem.

How does climate change present a threat to the structure, function and biodiversity of forest ecosystems?

Make notes on the five reasons given.

1.
2.
3.
4.
5.

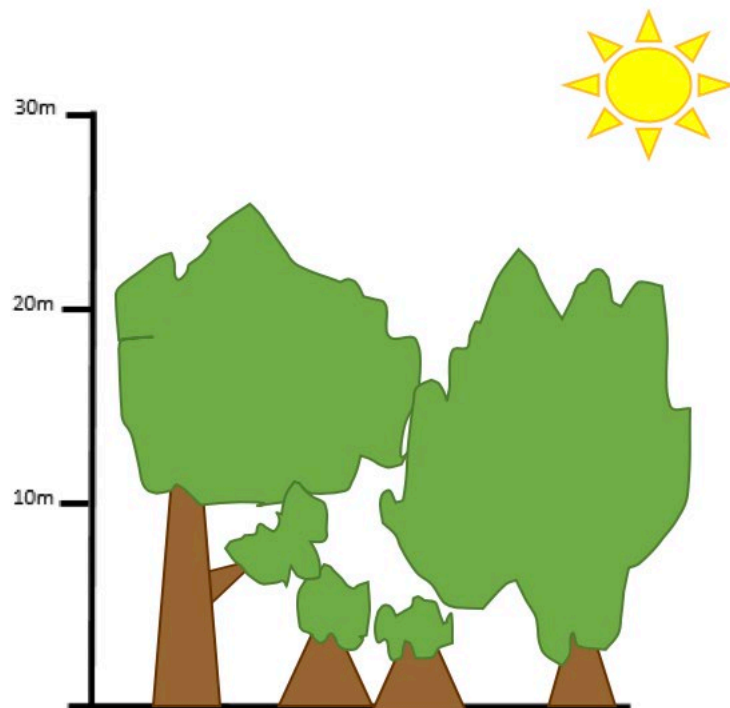
Which do you think is the largest threat to tropical rainforests and why?

3.5 D Sustainable Management in Costa Rica

Sustainable management of the tropical rainforest in Costa Rica.		
Sustainability rank. Rank each activity in Costa Rica. 1 being the most effective scheme. 4 being the least effective.	What the scheme involves	How is this scheme sustainable?
	The government set up national parks which protect 18% of the country and privately owned reserves make up another 13%.	
	Direct government action—tax deductions and grants to owners of rainforest if they conserved their forest area and used it to benefit society. \$50 annually for each hectare of forest they protect.	
	Areas previously deforested are being used to economically support the country e.g. farming banana crops.	
	The certificate for sustainable tourism for businesses proves their commitment to sustainable tourism.	

Which scheme is the most effective and why?

The distinguishing features of a deciduous woodland _ Follow the instructions on slide 11 and information from the slides on 12-14 as well as the video.

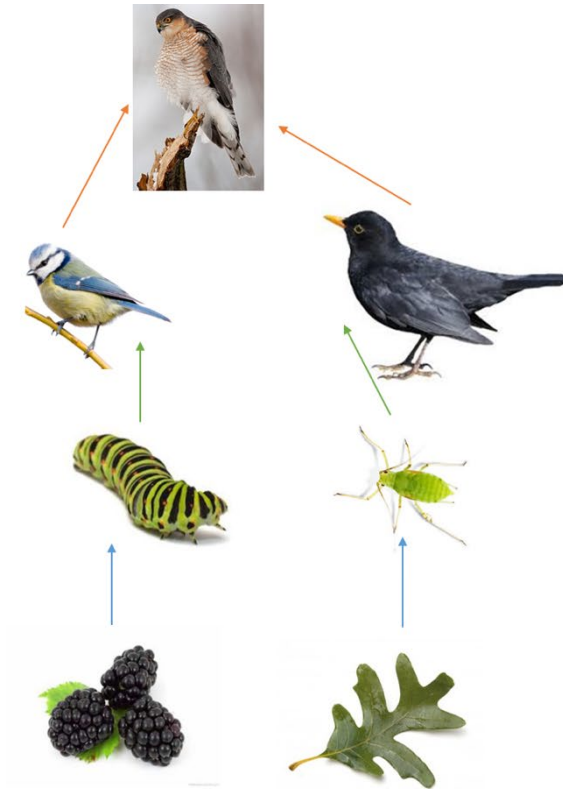


Tertiary
Consumer

Secondary
Consumer

Primary
Consumer

Producer



Label your own version of this food web.

Answer the following questions

1. What would happen to the ecosystem if the number of caterpillars decreased?
2. What would happen to the ecosystem if the amount of oak leaves increased?

1.

2.