









# Revision Checklist – Whose Rainforest? 2

	Revised for homework? (1)	Revised for homework? (2)	Revised in lesson?
Causes of deforestation: logging and mining.			
Causes of deforestation: subsistence and commercial farming.			
Causes of deforestation: hydroelectric power (HEP).			
Causes of deforestation: settlements, roads.			
Effects of deforestation: reduced biodiversity, soil erosion.			
Effects of deforestation: reduced poverty, global warming.			
Plan your answer: building roads in the Peruvian rainforest.			
Geographical skills.			



<a href="#">Coordinates</a> 	<a href="#">OS maps</a> 	<a href="#">Grid references</a> 	<a href="#">Distance</a> 	<a href="#">Percentages</a> 	<a href="#">Averages</a> 	<a href="#">Writing tips</a> 	<a href="#">Revision tips</a> 
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# Knowledge Organiser – Whose Rainforest? 1

## Causes of Deforestation

### Core Knowledge

Deforestation is removing trees by cutting, burning, or drowning them. It happens in many biomes but especially tropical rainforests. Trees are removed for many reasons:

**Logging** is cutting down trees to sell wood. Wood is cut into timber planks used to construct buildings or manufacture furniture. Wood can also be ground into pulp to use in paper manufacturing.

**Subsistence farmers** grow crops for themselves and their family. Little is left over to sell to others. To clear space for their small farms, subsistence farmers will cut down or burn trees.

**Commercial farming** businesses cut down or burn large areas of tropical rainforest. Lots of the same crop are grown on the land then sold for profit. Herds of cows might be farmed to sell beef.

Iron ore and gold are buried under tropical rainforests. Mining businesses clear many trees then dig large holes to access metal, instead of digging tunnels. This “open cast” mining is cheaper.

Dams are built across rivers to generate electricity called **Hydro Electric Power (HEP)**. Large areas of tropical rainforest upstream of the dam become submerged, drowning the trees.

### Revision Questions

What is logging?  
Are trees cut, burned, or drowned?  
Does this involve deforestation on a large scale or small scale?

What is subsistence farming?  
Are trees cut, burned, or drowned?  
Does this involve deforestation on a large scale or small scale?

What is commercial farming?  
Are trees cut, burned, or drowned?  
Does this involve deforestation on a large scale or small scale?

What is mining?  
Are trees cut, burned, or drowned?  
Does this involve deforestation on a large scale or small scale?

What is HEP?  
Are trees cut, burned, or drowned?  
Does this involve deforestation on a large scale or small scale?

# Knowledge Organiser – Whose Rainforest? 1

## Causes of Deforestation

### Core Knowledge

Loggers, farmers, miners and their families need shelter and services. **Settlements** to provide these are constructed in deforested areas. Some are villages, others cities.

Trees are cut down in strips to construct **roads** through tropical rainforests. These connect farms, mines, dams and settlements to each other and to places outside the tropical rainforest.

### Revision Questions

Why are settlements constructed in tropical rainforests?  
Are trees cut, burned, or drowned?  
Does this involve deforestation on a large scale or small scale?

Why are roads constructed in tropical rainforests?  
Are trees cut, burned, or drowned?  
Does this involve deforestation on a large scale or small scale?

# Knowledge Organiser – Whose Rainforest? 1

## Effects of Deforestation

### Core Knowledge

#### Reduced Biodiversity

Tropical rainforests are the most biodiverse biome.

Deforestation kills plants and animals. Burning tropical rainforest kills plants and insects unable to flee. When trees are removed, animals living in those trees cannot survive.

Deforestation decreases the population of plants and animals. It also causes some to become extinct. Therefore, deforestation reduces biodiversity.

Reduced biodiversity might cause some medicines to run out in all countries. For example, 25% of modern medicine comes from tropical rainforest plants

### Revision Questions

What does biodiversity mean?

Why does deforestation reduce biodiversity?

Why is reduced biodiversity a problem for people?

# Knowledge Organiser – Whose Rainforest? 1

## Effects of Deforestation

### Core Knowledge

#### Soil Erosion

Tree roots hold soil together. When trees are removed, soil becomes loose. This means that it is easily washed into rivers by heavy rainfall. This is called soil erosion.

Rivers filled with eroded soil have a higher risk of flooding. Soil on the river bed reduces the channel capacity, so rainfall is very likely to overflow the river.

Rivers filled with soil are a difficult habitat to survive in. Sunlight is blocked by soil, so underwater plants struggle to photosynthesise. Fish cannot see, so struggle to find food.

### Revision Questions

What is soil erosion?  
How does deforestation lead to soil erosion?

How does soil erosion lead to flooding?

How does soil erosion reduce biodiversity in rivers?

# Knowledge Organiser – Whose Rainforest? 1

## Effects of Deforestation

### Core Knowledge

#### Global Warming

Trees absorb carbon dioxide (CO<sub>2</sub>) for photosynthesis. This means that trees remove CO<sub>2</sub> from the atmosphere.

Deforestation means more CO<sub>2</sub> stays in the atmosphere. As CO<sub>2</sub> is a greenhouse gas, more heat is trapped around Earth. Therefore, deforestation causes global warming.

Burning tropical rainforests also releases CO<sub>2</sub> into the atmosphere.

### Revision Questions

How do plants remove CO<sub>2</sub> from the atmosphere?

How does deforestation lead to global warming?

# Knowledge Organiser – Whose Rainforest? 1

## Effects of Deforestation

### Core Knowledge

#### Reduced Poverty

People living around the edge of tropical rainforests often cannot afford necessities like proper food, water, and shelter.

Deforestation creates jobs. Mines and commercial farms will employ local people. Local people can also be paid to transport timber, metal, and beef out of tropical rainforests.

Jobs give local people an income, allowing them to buy necessities. Therefore, deforestation can reduce poverty.

As people on the edge of tropical rainforests earn more money, they pay more tax to their government. This means that more money can be spent on schools and hospitals..

### Revision Questions

Give examples of jobs created by deforestation.

Why do new jobs reduce poverty?

How can deforestation help local governments improve services?

# Knowledge Organiser – Whose Rainforest? 1

## Effects of Deforestation

### Core Knowledge

#### Indigenous People

Before people from Europe took control of South America, indigenous tribes lived in the Amazon Rainforest. "Indigenous" means they were the first people to live in a place.

Each tribe used the Amazon Rainforest on a small scale, not removing many trees or killing many animals. This means that their communities were sustainable.

In recent decades, deforestation has forced indigenous tribes to move further into the Amazon Rainforest. However, some areas belonging to tribes have become protected.

Jair Bolsonaro became the President of Brazil in 2019. He believes more of the Amazon Rainforest should be used for profit. Since 2019, more deforestation has happened in protected areas.

### Revision Questions

What does indigenous mean?

How are indigenous people affected by deforestation?