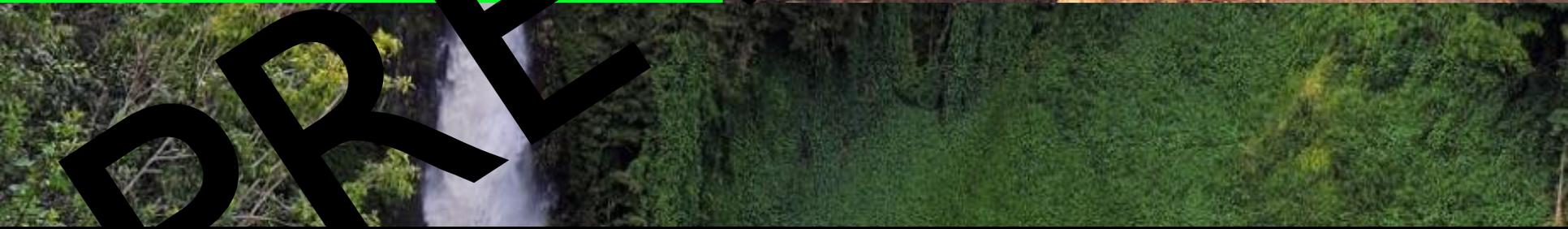


The Impact of deforestation

22/03/2018

Do Now

How is cutting trees down making the earth's climate change? Think of ideas with a partner



Aim

- To understand the many effects of deforestation on a global and local level

The facts

- Trees and soil in rainforests absorb and store carbon
- It is estimated up to 20% of carbon dioxide in the world that is contributing to climate change comes from the rainforests
- This is mainly because of burning areas of rainforest to clear them and the loss of carbon absorption from cutting them down

Think back to previous lessons. How are we trying to preserve rainforests?

Climate change vs. Global warming

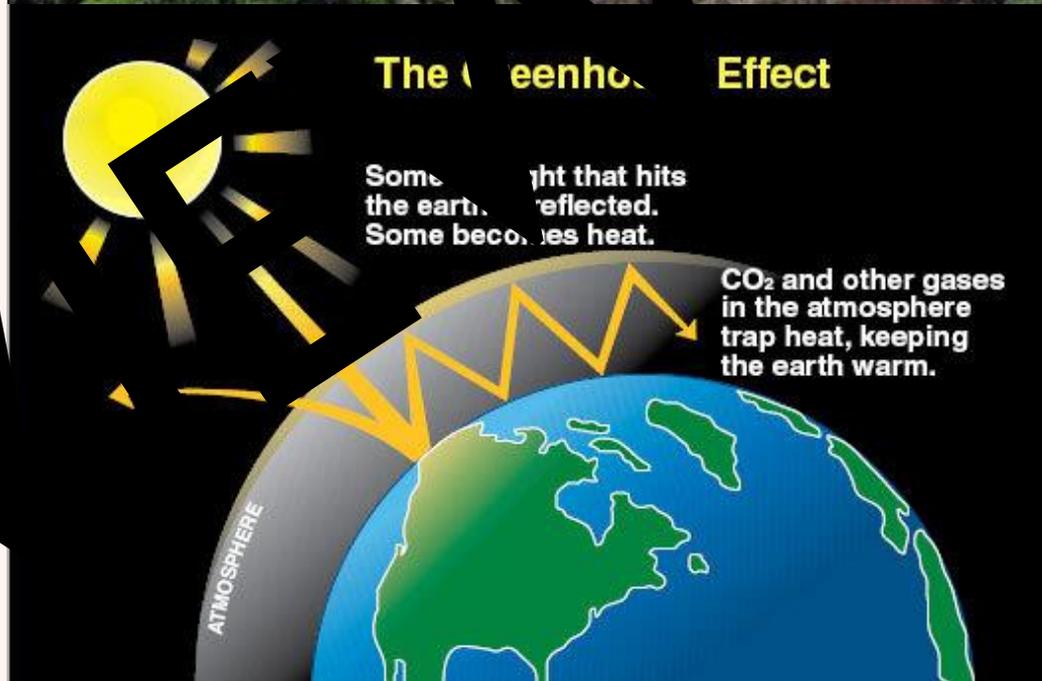
- The altering of the Earth's climate used to be called global warming however, it is now accepted that not all areas of the world will become warmer
- People now refer to this change as **climate change**



PREVIEW

What is the greenhouse effect?

- The greenhouse effect is the way the earth traps the sun's heat.
- Without the greenhouse effect the world would be about 30°C colder and humans and animals would not be able to live.



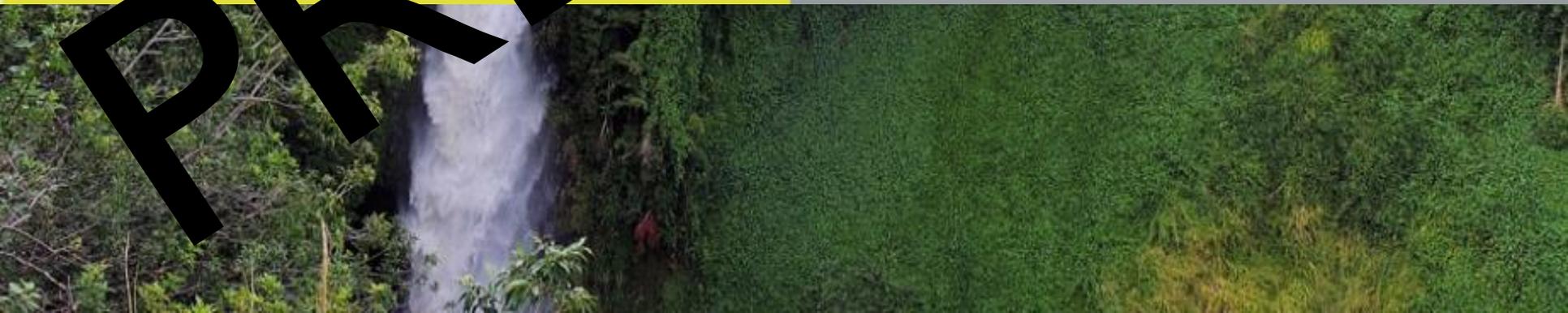
The greenhouse effect

1. Sunlight passes through the atmosphere and warms the Earth.

2. Infrared Radiation (IR) is given off by the Earth. Most IR escapes outer space and cools the Earth.

3. Some IR is trapped by greenhouse gases in the air and this reduces the cooling effect.

PREVIEW



The enhanced greenhouse effect

- The enhanced greenhouse effect means that the earth is getting _____. This is because the _____ of _____ around the _____ is getting thicker.
- It is getting thicker because more greenhouse gases have been added to the layer and there is more _____ and _____ being produced by cows and _____.

Layer

humans

methane

warmer

earth

greenhouse gases

CO₂

PREVENTION

Climate Change

The enhanced greenhouse effect is leading to a change in Earth's climate known as 'climate change'. Scientists have evidence that shows that the atmosphere is getting warmer.

http://www.youtube.com/watch?v=_s9dxc_jVIY&feature=related

Rainforests and climate change

- It is now estimated that 20% of carbon dioxide in the atmosphere is as a result of rainforest deforestation. This is because of burning the wood and the loss of trees to absorb carbon



Video

- <https://www.youtube.com/watch?v=Da1NQKdTI6w>
- <https://www.youtube.com/watch?v=4QDGTu9Dou4>
- <https://www.youtube.com/watch?v=gfi56wU9RqM>

PREVIEW

Soil erosion

- Soil takes thousands of years to form and can be destroyed in just hours
- Taking away trees and plants stops the soil from being bind together

PREVIEW

Loss of biodiversity

- Deforestation kills plants and animals reducing biodiversity
 - Parts of the Peninsular Malaysia are being heavily deforested
 - This area has over 1000 animal species
 - It is home to 25% of Malaysia's trees
- Many areas here are thought to have undiscovered medicinal qualities

Economy

- Profit is the main reason for deforestation, however it is a short term gain

PREVIEW

Task

Complete the economic gains and losses sheet

Ext – Using examples explain why it is important to retain biodiversity, (4 marks)

PREVIEW

Task

How far do you agree with the following statements...

Deforestation is necessary and should continue

The benefits of deforestation outweigh the impacts

Without deforestation there would not be enough jobs in countries like Malaysia

We can avoid deforestation and therefore should stop it completely

Ext 4 Describe the effects of deforestation on the climate

What have we learnt today?

Aim

- To understand the many effects of deforestation on a global and local level

What we will learn next...

- Managing tropical rainforests