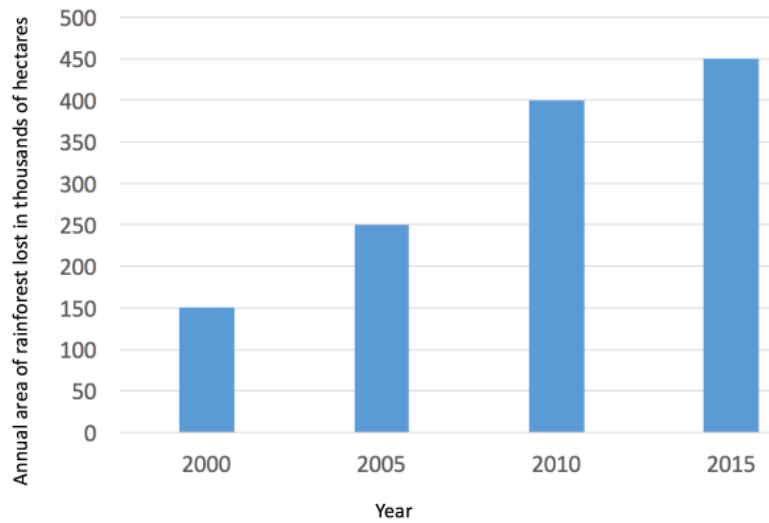


0	1
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The graph below shows the area of Amazon rainforest that is lost due to deforestation



0	1	.	1
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The area of rainforest lost each year in the Amazon increased from 2000 to 2015. Determine the difference in the annual area lost to deforestation between 2000 and 2015.

**2015: 450,000 - 150,000 hectares in 2000**

total area of rainforest lost 300 thousand hectares

**[1 mark]**

0	1	.	2
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Deforestation is the removal or clearance of trees in forest areas so that the land or materials can be used by people.

Deforestation can lead to increases in the amount of carbon dioxide in the atmosphere and to a reduction in biodiversity.

Explain how deforestation leads to each of these environmental issues.

Increase in carbon dioxide \_\_\_\_\_

**less trees to remove carbon dioxide for photosynthesis [1], burning/ transportation of (felled) trees/decomposition by microbes (add carbon dioxide to the atmosphere) [2 marks]**

Reduction in biodiversity \_\_\_\_\_

**destruction of habitat [1] so less food/shelter [1] plants or animals die or become extinct [1] [2 marks]**

Suggest the benefits of deforestation to humans \_\_\_\_\_

**land cleared for farming livestock [1] farming crops [1] growing biofuels [1] cleared to build homes [1], wood used as a building material/furniture or fuel [1]**

**[2 marks]**

0	1
---	---

3

Levels of carbon dioxide and methane in the atmosphere are increasing and contribute to 'global warming'

Global warming may lead to a rise in sea levels in the future.

Give 2 other possible effects of global warming in the Earth

any 2 from:

big changes in the Earth's climate, reduced biodiversity, changes in migration patterns (e.g. birds), changes in the distribution of species (e.g. mosquitoes), changes in the flowering times for plants, changes in the reproduction cycle of a species

[2 marks]

0	1
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4

Suggest why scientists cannot be certain about the effects of global warming on the planet?

The effect has not happened yet or it is hard to predict the future or these are only predictions or there may be other factors involved or there may be some effects not thought of.

[1 mark]