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Case study: Deforestation

2 Quick quiz

1. Give **one** environmental impact of deforestation.

.....

2. Name **three** causes of deforestation.

.....
.....
.....

5 Plate margins Grade 3

1. Study **Figure 1**, a graph showing tree cover loss in Indonesia's forests.

(a) Which year had the greatest tree cover loss?

[1 mark]

.....

(b) State the annual tree cover loss in 2004.

[1 mark]

.....

(c) Describe the overall trend in tree cover loss in Indonesia's rainforests.

[2 marks]

Figure 1 shows an overall increase in the rate of deforestation and the hectares of tree cover lost.

.....
.....

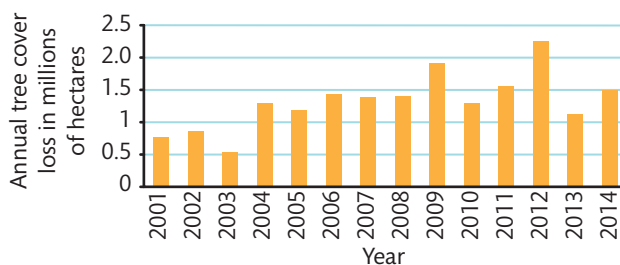


Figure 1

Geographical skills



If you are asked to describe a trend, you should include the following in your answer:

1. What the trend is – increase or decrease.
2. What the change has been – you should include specific numbers from the figure you have been given.

5 Causes of deforestation Grade 4

2. Explain how agriculture can cause deforestation.

[4 marks]

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Explain the cause and effect between agricultural methods and deforestation. After you have described a type of agriculture, use a phrase such as, 'This can lead to deforestation because...'

Case study



Revise the causes and impacts of deforestation for your tropical rainforest case study. Use facts to support your answers in the exam.



Made a start



Feeling confident



Exam ready



Sustainable rainforests



Quick quiz



1. Complete the sentences using the words below.

- (a) Tropical rainforests are valuable to the environment because of their very high level of
- (b) conserve and provide education about particular areas.
- (c) Debt involves writing off some of a country's debt if they commit to the of their rainforest.

national parks	biodiversity	protection	urban areas	moisture	reduction
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Ecotourism

Grade 4



1. Study **Figure 1**, a photo showing people soft trekking in Indonesia.

Outline the benefits of soft trekking as an approach to sustainable rainforest management. **[2 marks]**

T Soft trekking guides tourists on a specifically allocated trail, which prevents

.....

.....



Figure 1

2. Give **one** reason why ecotourism is important to sustainable rainforest management. **[1 mark]**

.....

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Sustainable management strategies

Grade 4



3. Explain the importance of selective logging to the preservation of tropical rainforests. **[3 marks]**

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The key word is 'selective' – logging that isn't selective is a major cause of deforestation.

You could also be asked about the importance of tree replanting, conservation and education, ecotourism, debt reduction and international agreements.

4. State **one** aim of international co-operation in the management of rainforests. **[1 mark]**

.....

.....





Characteristics of hot deserts



Quick quiz



1. Complete the sentence by ticking **one** of the options below.

Deserts receive less than rainfall per year.

- 150 mm
- 250 mm
- 350 mm

3. Name the largest desert in the world.

.....

2. Complete the sentence by ticking **one** of the options below.

Hot deserts cover approximately of the Earth's land surface.

- 0%
- 40%
- 20%

4. Name **one** threat to freshwater oases.

.....



Characteristics of hot deserts

Grades 1-2



1. Choose the statement below that describes the climate of hot deserts. Shade **one** circle only.

[1 mark]

- A Hot during the day with temperatures reaching over 50°C, but cold night-time temperatures which can drop below freezing.
- B Mild temperatures most of the year (10-20°C).
- C Seasonal temperatures during the year (10-30°C).



2. Outline the characteristics of hot deserts.

[2 marks]

Exam focus

Outline means 'set out the characteristics', so you do not need to include any explanations in your answers to these questions. Look at the number of marks to gauge how many points you need to make; this question is worth 2 marks, so outline two characteristics of hot deserts.



One of the characteristics of hot deserts is that they are very dry, with average precipitation levels of less than

.....



Adaptations

Grades 1-2



3. Explain **one** way animals have adapted to hot deserts.

[2 marks]

Camels have adapted to surviving without water for several

.....

4. Outline **one** way plants have adapted to survive in hot deserts.

[2 marks]

.....



Made a start



Feeling confident



Exam ready



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Case study: Opportunities and challenges in a hot desert

2 Quick quiz

1. Complete the sentence.

Limestone, copper and phosphate are all that can be found in hot deserts.

2. Quad biking tours are an example of which opportunity provided by hot deserts?

farming tourism

3. Growing dates and other fruit is an example of which opportunity provided by hot deserts?

.....

4. Complete the sentence.

Due to their consistent levels of sunlight, deserts provide the opportunity to generate energy.

5 Challenges of hot deserts Grade 4

1. Explain **two** challenges of living in hot deserts. **[4 marks]**

Think about the physical characteristics of deserts that make them difficult for humans to survive in.

 The harsh landscape of deserts such as the Sahara in North

Africa make it difficult for people to develop settlements

because of difficulties building key infrastructure.

Another challenge


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Case study 
Use information from your case study to support your answers, even if the question does not specifically ask for it. If you do not remember specific details of the case study, just name an example and its location to help focus your answer.

10 Development opportunities in hot deserts Grades 5–9

2. 'Hot deserts provide economic opportunities.' Do you agree with this? Using your understanding, explain your answer. **[6 marks]**

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Copyrighted Material Desertification

2 Quick quiz ? ✓

1. Complete the sentence.

Areas on the edge of are particularly at risk of desertification.

2. Give **one** advantage of small-scale irrigation systems.

.....

3. Name the cause of desertification being described in each sentence below.

(a) Sheep, cattle and goats eat too much vegetation, leaving the soil exposed.

.....

(b) People cut down trees for fuel, causing the roots to die and removing the binding agent for the soil.

.....

5 Causes of desertification Grades 2–3 ✓

1. Study **Figure 1**, a photo showing a farmer in the Sahel region of Africa. Outline how over-cultivation can cause desertification. **[2 marks]**

T The intensive growing of crops to meet the demands of growing populations means that the soil is unable

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.....

2. Outline how climate change is causing desertification.

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Figure 1

[2 marks]

Think about what crops need from the soil to be able to grow.

Question 1 asks **how** over-cultivation can lead to desertification. You need to give an explanation, clearly showing the relationship between over-cultivation and desertification.

5 Managing desertification Grade 4 ✓

3. Explain how the use of appropriate technology can help to reduce desertification. **[2 marks]**

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Made a start



Feeling confident



Exam ready



Characteristics of cold environments

Copyrighted Material



Quick quiz



1. Where is the Arctic Tundra biome located?
Circle the correct answer.

Northern Hemisphere Southern Hemisphere

2. Name **two** animals that are adapted to living in cold environments.

.....
.....

3. Complete the sentence by ticking **one** of the options below.

Polar regions cover the Arctic and... Asia Antarctic Africa



Adaptations and biodiversity

Grade 3



1. Study **Figure 1**, a photo showing the Labrador tea plant growing in Alaska. Its leaves have fine hairs on their underside to help prevent water loss and retain heat.

Using **Figure 1**, explain **one** other way plants have adapted to the cold environment.

[2 marks]

T In Figure 1, you can see that mosses and lichens grow close

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Figure 1

You could write about a different element of the Labrador tea plant or another plant shown in the photo, such as mosses.

2. Explain why cold environments have low biodiversity.

[2 marks]

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3. Complete the following sentences.

[2 marks]

Plants have adapted to the extreme climate by growing quickly in when temperatures rise.

They provide a for ground nesting birds and are food for herbivores such as reindeer.

This is an example of interdependence.



Characteristics of cold environments

Grade 4



4. Outline the characteristics of cold environments.

[3 marks]

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Exam focus



This question is worth 3 marks, so outline three characteristics.

