

Kemnal Keys: Geography — Topic 3 Ecosystems

What you should know	What you should be able to do
Distribution and characteristics of the world's large-scale ecosystems	Describe the distribution of global large-scale ecosystems Describe the difference between an ecosystem and a biome
The role of climate and local factors in the influence the distribution of different large-scale ecosystems	Explain how global climate systems lead to the location of tropical rainforests Explain how altitude affects the location of large-scale ecosystems Assess the importance of latitude in the location of large-scale ecosystems
How the biosphere provides resources for people	Explain how the biosphere provides resources for people
Distribution and characteristics of the UK's main ecosystems	Describe the distribution of the UK main ecosystems
The importance of marine ecosystems to the UK	Explain why marine ecosystems are important to the environment of the UK Explain why marine ecosystems are under threat
The characteristics and interdependence of biotic and abiotic factors in the tropical rainforest	Describe the characteristics of plants in the tropical rainforests Explain why tropical rainforests have a greater biodiversity than deciduous woodlands Explain how the factors in the Gersmehl model are different in tropical rainforests compared to deciduous woodlands
How plants and animals have adapted to the tropical rainforests	Explain how plants and animals have adapted to live in tropical rainforests
The goods and services provided by the tropical rainforests	Explain how different elements of tropical rainforests can be described as natural resources
How social, economic and political factors, including climate change, have affected tropical rainforests and how they can be managed sustainably	Explain how deforestation leads to climate change Explain how the increased use of palm oil in products has led to a loss of biodiversity in tropical rainforests Assess how tropical rainforests can be managed sustainably
The characteristics and interdependence of biotic and abiotic factors in deciduous woodlands	Describe the characteristics of plants in deciduous woodlands Explain why tropical rainforests have a greater biodiversity than deciduous woodlands Explain how the factors in the Gersmehl model are different in tropical rainforests compared to deciduous woodlands
How plants and animals have adapted to deciduous woodlands	Explain how plants and animals have adapted to live in deciduous woodlands
The goods and services provided by deciduous woodlands	Explain how different elements of deciduous woodlands can be described as natural resources
How social, economic and political factors, including climate change, have affected deciduous woodlands and how they can be managed sustainably	Explain how deforestation leads to climate change Explain how increased levels of tourism has led to a loss of biodiversity in deciduous woodlands

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<p>Quiz 1</p> <ol style="list-style-type: none"> 1. What is an ecosystem? 2. What is a biome? 3. What factors can change the balance of an ecosystem? 4. How do factors change the balance of an ecosystem? 5. What is the nutrient cycle within ecosystems? 6. What is the global distribution of tropical rainforests? 7. What is the global distribution of polar regions? 8. What is the global distribution of hot deserts? 9. What is the global distribution of grasslands? 10. What is the global distribution of temperate forests? 11. What is the global distribution of coral reefs? 12. What ecosystems are found in the UK? 	<p>Quiz 2</p> <ol style="list-style-type: none"> 1. How do temperatures vary in different ecosystems? 2. Why do temperatures vary in different ecosystems? 3. How does precipitation vary in different ecosystems? 4. Why does precipitation vary in different ecosystems? 5. How do sunshine hours vary in different ecosystems? 6. Why do sunshine hours vary in different ecosystems? 7. How does rock type vary in different ecosystems? 8. What difference does rock type make to different ecosystems? 9. How does altitude vary in different ecosystems? 10. What difference does altitude make to different ecosystems? 11. Why are some ecosystems more densely populated with humans than others? 12. Why are some ecosystems more open to exploitation by humans than others?
<p>Quiz 3</p> <ol style="list-style-type: none"> 1. What are the characteristics of moorlands? 2. Where are moorlands mainly located in the UK? 3. What are the characteristics of heaths? 4. Where are heaths mainly located in the UK? 5. What are the characteristics of woodlands? 6. Where are woodlands mainly located in the UK? 7. What are the characteristics of wetlands? 8. Where are wetlands mainly located in the UK? 9. What is sea grass? 10. Why is sea grass important to biodiversity in the UK? 11. Why are marine ecosystems important to the UK economy? 12. In what ways are marine ecosystems in the UK being degraded? 	<p>Quiz 4</p> <ol style="list-style-type: none"> 1. What is the climate like in the tropical rainforest? 2. What is the soil like in the tropical rainforest? 3. What is the litter layer? 4. What is biodiversity? 5. What is the biodiversity like in tropical rainforests? 6. How does the tropical rainforest regulate rainfall? 7. What is stratification? 8. What are the layers of the tropical rainforest? 9. What is leaching? 10. What goods are provided by the tropical rainforest? 11. What services are provided by the tropical rainforest? 12. How do people use the tropical rainforest?
<p>Quiz 5</p> <ol style="list-style-type: none"> 1. How have plants adapted to tropical rainforest? 2. What are buttress roots? 3. How have animals adapted to the tropical rainforest? 4. What are the threats to the tropical rainforest? 5. What is deforestation? 6. What are the causes of deforestation? 7. How does deforestation impact the tropical rainforest? 8. What threat does climate change present to the tropical rainforest? 9. How can tropical rainforests be managed? 10. What is ecotourism? 11. What is selective logging? 12. How does debt reduction protect the tropical rainforest? 	<p>Quiz 6</p> <ol style="list-style-type: none"> 1. What is the climate like in deciduous woodlands? 2. What is the soil like in deciduous woodlands? 3. What is the herb layer? 4. Why is the litter layer in a deciduous woodland smaller than in a tropical rainforest? 5. What is the biodiversity like in a deciduous woodland? 6. How many seasons does a deciduous woodland have? 7. How have animals adapted to living in deciduous woodlands? 8. How have plants adapted to living in deciduous woodlands? 9. What is hibernation? 10. What goods are produced from deciduous woodlands? 11. What services are produced from deciduous woodlands? 12. How can deciduous woodlands be managed sustainably?