

Components for Climate Change and Erosion - UKS2 Geography - Sum 2 Cycle 1

Lesson 1:	Lesson 2:	Lesson 3:	Lesson 4:	Lesson 5:	Lesson 6:
<p>WALT: Describe the physical process of climate change and some of the predicted effects of climate change.</p> <p>Know that climate change is a long-term change in the earth's climate.</p> <p>Know that temperatures are rising because of climate change.</p> <p>Know that the earth has warmed by an average of 1°c in the last century.</p> <p>Know that small changes in the climate have a huge effect on people and wildlife around the globe.</p> <p>Know that the changing climate will make our weather more extreme and unpredictable.</p> <p>Know that predicted effects include: increased rainfall, change in the seasons, shrink in sea ice, rise in sea levels.</p>	<p>WALT: Describe the main causes and effects of climate change and the attempts to manage it.</p> <p>Know that climate change is caused by mainly human processes.</p> <p>Know that the burning of fossil fuels such as coal and oil emits CO₂ which is an invisible greenhouse gas.</p> <p>Understand the greenhouse effect.</p> <p>Know that electric cars, low emission zones in cities (ULEZ in London) and low-energy light bulbs are ways of managing carbon emissions.</p> <p>Understand that reducing and reusing materials reduces carbon emissions.</p> <p>Know that reducing 'food miles' is a current strategy to reduce emissions.</p>	<p>WALT: Investigate geographical areas where climate change is having a noticeable effect.</p> <p>Deep retrieval task: Recommend ways of reducing carbon emissions.</p> <p>Know that climate change will affect areas differently.</p> <p>Know that Kenya may be unable to grow vital crops such as tea due to rainfall patterns being less predictable.</p> <p>Know that farming communities in developing countries will experience higher temperatures, increased rain, floods and droughts.</p> <p>Know that polar bears will have fewer places to hunt and rest as their habitat is melting.</p> <p>Know that in Indonesia, orangutans are under threat because of deforestation.</p>	<p>WALT: describe the physical features of a coast and explain the processes of erosion and deposition.</p> <p>Know that the surface of the earth is completely covered in rock.</p> <p>Know most of this rock is submerged but the higher areas are called land.</p> <p>Know that coasts are where the edge of the higher land meet the oceans.</p> <p>Know that there are geographical features of coasts such as headlands, beaches, cliffs, arches, stacks and bays.</p> <p>Know these features are caused erosion and deposition.</p> <p>Know that erosion is the wearing away of rocks through wind blowing over waves - the force of the waves erodes the land.</p> <p>Know that waves erode soft areas of rock.</p>	<p>WALT: Describe the purposes, advantages and disadvantages of sea defences.</p> <p>Know that the coastline is managed by engineers who build artificial structures.</p> <p>Know these structures try to control natural processes.</p> <p>Know that sea walls are made of concrete and are placed at the bottoms of cliffs and tops of beaches.</p> <p>Know that they are effective at protecting the cliff and provide places for people to walk along.</p> <p>Know that rock armour is another method of sea defence where rocks large boulders are placed at the bottom of a cliff to protect it.</p> <p>Know that the rocks are expensive to transport and look different from a natural cliff.</p>	<p>WALT: Explain why erosion is more prevalent at the Holderness coastline than at any other area in Europe.</p> <p>Deep retrieval task: Recommend one type of sea defence and explain why you have recommended it.</p> <p>Know the location of the Holderness coast in the UK.</p> <p>Know the Holderness coast is the fastest eroding coastline in Europe.</p> <p>Know the cliffs are made of soft clay and there are powerful waves along the coast.</p> <p>Know that it is mainly made up of chalk/glacial compounds that are easily eroded such as boulder clay.</p> <p>Know that the Holderness coastline is more susceptible to erosion due to its location facing the North Sea.</p>

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<p>B - Describe the physical process of climate change.</p> <p>A - Explain how climate change is affecting animals.</p> <p>D - Research why climate change is a problem. Summarise the information that you have read. Use the QR code and read 'Climate change affects us all'.</p> <p>What is climate change? - KS2 - The Regenerators - BBC Bitesize</p>	<p>B - Describe the main causes of climate change.</p> <p>Describe attempts to manage the effects of climate change.</p> <p>A - Explain how climate change affects us all.</p> <p>D - Investigate geographical areas where climate change is having a noticeable effect. Cite evidence.</p>	<p>B - True or false? How is climate change affecting Fiji?</p> <p>A - Explain how climate change is having a noticeable impact in Fiji.</p> <p>D - Explain how rising sea levels are causing a problem for Fairbourne in Wales.</p>	<p>Know that deposition is the dumping of rocks which forms beaches.</p> <p>B - Label the main physical features seen at a coast.</p> <p>Read the section headed 'The processes that form coastlines'.</p> <p>A - Read the information below and decide whether the following statements are true or false.</p>	<p>Know that groynes are wooden or rock structures built out into the sea.</p> <p>B - Label the following sea defences:</p> <ul style="list-style-type: none"> • sea walls • rock armour • groynes. <p>Describe the purpose and advantages and disadvantages of each of these sea defences.</p> <p>A - The Holderness coastline. Read the information.</p> <p>Which statements are true and which statements are false?</p>	<p>B - Describe why the coastline at Holderness is eroding so quickly.</p> <p>A - Explain what defences are in place to protect the coastline at Holderness.</p> <p>(Recap previous knowledge) Explain some of the advantages and disadvantages of these defences.</p> <p>D - Research soft engineering options that use natural processes to protect the coast.</p>
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