

The Man from DEFRA

About the Module

Students investigate different types of coastal protection methods which can be used to protect the environment next to the sea. They undertake fieldwork in order to research the influence of geology, human factors and climate. This practical research is combined with information about the costs of building such coastal protection.



Students use the results of their investigations to create a multimedia presentation in which they attempt to persuade 'the man from DEFRA' that their solution is the best. They must also justify the spending of millions of pounds on their scheme. The presentation must be entertaining and informative to the audience, using text, images, sound and animation to structure a reasoned and persuasive argument.

Students will present their findings to the staff, who will judge which is the best and therefore the winner of the contract to build the coastal protection.

Key Vocabulary

Multimedia, presentation, visual effect, sound effect, image, animation, toolbar, background, thumbnails, planning, structure, font, transition, storyboard, crop, coast, erosion, transportation, deposition, wave, tide, rock, headland, cliff, cave, arch, stack, bay, beach, shingle, sand, groyne, sea wall, slope failure, spit, longshore drift, landforms.

Desired Learning Outcomes

During this module students will learn to:

- Identify key erosion features on a coastline;
- Recognize five types of coastal protection;
- Understand how the processes of erosion, transportation and deposition are linked through longshore drift;
- Plan a presentation;
- Collect appropriate resources;
- Construct an MS PowerPoint multimedia presentation;
- Insert text and images;
- Format text appropriately for the purpose and audience;
- Select and create backgrounds;
- Manipulate images to prepare for use;

- Add sound effects, animation and transitions;
- Consider the audience when selecting material to include;
- Structure a reasoned explanation using multimedia;
- Reorder slides within a presentation;
- Present to an audience using MS PowerPoint;
- Evaluate and improve their presentations.

Curriculum Links

<p>NC Geography Geographical enquiry and skills 1abce 2abdfg Knowledge and understanding of places 3acde Knowledge and understanding of patterns and processes 4b Knowledge and understanding of environmental change and sustainable development 5ab Breadth of study 6e</p> <p>QCA Geography KS2 Unit 8 Improving the environment KS2 Unit 23 Investigating coasts KS3 Unit 8 Coastal environments</p>	<p>NC Science Living things in their environment 5a Grouping and classifying materials 1ad Changing materials 2de</p> <p>QCA Science KS3 Unit 8G Rocks and weathering</p>	<p>NC ICT Finding things out 1bc Developing ideas and making things happen 2a Exchanging and sharing information 3abc Reviewing, modifying and evaluating work as it progresses 4ac</p> <p>QCA ICT KS2 6A Multimedia presentation KS3 Unit 3 Processing text and images</p>
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Expectations

The students will create and perform a multimedia presentation, which communicates information specifically relating to protecting an eroding coast. This will be presented appropriately, informing, entertaining and persuading the audience.