Geography KS5 Unit 2: Coastal Landscapes

Assessment Opportunities	Literacy/Reading opportunities	CEIAG Links
During each unit a number of mini mocks will take place throughout. These will be used to assess understanding and guide future learning.	Vocabulary is detailed throughout the topic and is highlighted at the beginning of each topic within the classroom.	Use of satellite images. Use of different forms of maps and mapping tools. Links to environmental management and
During the year, students complete a mid-year and end-of year assessment which assesses students on all content covered.	Reading opportunities take place regularly throughout all Geography schemes of learning. Extended writing opportunities take place regularly throughout all Geography schemes of learning. This is identified within this SOL.	resilience throughout the topic – how do we manage coasts? Global decision making/ politics/ international development/ environmental engineering

Curriculum vision:

"Our aim is to deliver a curriculum that is inclusive, relevant and progressive for all learners."















RESPECT

AMBITION

RESILIENCE





3.1.3 Coastal systems and landscapes

Assessment Mini-tests will take place thr Mini-mocks will take place the the following topics: Coastal systems and Coastal landscapes Coastal management	hroughout the unit on processes	Knowledge strands/links to p Students will carry a good found from the study of coastal landsc their Geography GCSE.	ation knowledge	Will be se will inclue • Fu • Gi	ork/independent study et each week by the class teacher. Tasks de: urther reading uided research into tourism sectors uided writing practice
Specification content Week number	Subject-specific skills development	Learning outcomes	Suggested learn activities (inclue to differentiatio extension activit	ding ref n and	Resources
Week 1 Systems in physical geography (If students have already studied the unit on Water and Carbon cycles, they should revisit the introductory section of that unit on 'Systems in Physical Geography' and then return to the end of this section to	Use of key subject specific and technical terminology. To identify connections and interrelationships between different aspects of geography. Constructing and using systems and	An overview of the concept and use of ' models ' by geographers as simplifications of a complex world. Understanding of the concept of ' systems frameworks ' as a type of model fundamental to most areas of geographical understanding. Students will be able to identify, describe and explain the elements of geographical systems, including: - stores/components	Small group discuss followed by feedbar models used in geo students know? Students to draw ar annotate a model s show the key eleme system. Students to draw ar annotate a diagram an example of a pos	ck - what graphy do nd ystem to ents of a nd showing	Introductory presentation on water and carbon cycles as natural systems Simple summaries of a number of earth systems A summary of the features of the lithosphere A summary of the features of the hydrosphere

 systems'. If this is the first physical geography element studied, complete an introductory lesson covering the 'systems in physical geography' material outlined in this section) Systems in physical geography: Systems concepts and their application to the development of coastal landscapes: inputs- outputs, energy, stores/components, flows/transfers, positive/negative feedback, dynamic equilibrium. The concepts of landform and landscape and how related landforms combine to form characteristic landscapes. 	models. Labelling and annotation of diagrams.	 flows/connections elements attributes relationships. Students will be able to identify, describe and explain common characteristics of systems including: boundaries inputs outputs flows. Students will understand systems that are classified as: isolated systems closed systems open systems. Students will understand systems as being in a state of dynamic equilibrium that includes: positive feedback negative feedback. Students will be able to identify the four major subsystems of the earth: atmosphere lithosphere biosphere. To understand that these are interlinked as a 'cascading system'. 	feedback system and a negative feedback system. Repeat group discussion to see if students can now think of any more examples of systems in geography. Students to work in pairs/small groups to think of ways in which the four 'spheres' are interlinked, then feedback and share ideas. Opportunity here for a short research task for interconnections. Practice low-tariff exam questions to assess learning – peer assessment opportunity.	A summary of the features of the cryosphere plus further information <u>about</u> the cryosphere A summary of the features of the atmosphere An online lesson activity investigating connections in the atmosphere

Systems and processes	specific and technical	different zones of the coastline, to	illustrate the different coastal	covering all aspects of coastal processes
Weeks 2-3	Use of key subject	Students will be able to identify	Construct a diagram to	There are a huge range of resources online
		Students will appreciate that characteristic coastal landscapes are the combination of related landforms.	(Specific landforms and landscapes are studied in detail later.)	
		concepts of: - landform - landscape.	Discuss what represents a characteristic coastal landscape.	
		Coasts as characteristic landscapes Students will understand the	Small group discussion to identify prior knowledge of coastal landforms.	
			Once all students have illustrated one example of feedback at the coast, there is the opportunity for individuals/small groups to research for others.	
		 positive feedback negative feedback. 	Students to draw and annotate a diagram showing an example of a positive or negative feedback in a coastal landscape.	
		- outputs. Students will be able to understand coastal landscapes as being in dynamic equilibrium that includes:	Paired/small group task to identify examples of positive and negative feedback in coastal landscapes.	
		system, including: - inputs - components/stores - transfers/flows	Construct and annotate a diagram to illustrate various elements of the coast as an open system.	
		systems. Students will be able to identify the different elements of a coastal	Small group discussion/Q&A to understand coasts as open systems.	

coastal environments: winds, waves (constructive and destructive), currents and tides. Low energy and high energy coasts.Opportunities to develop skills such as drawing, labelling and anotating diagrams backshore - foreshore - swash zone - suff zone - wind - wind - wind - waves - securrents. - wind - waves - securrents. - wind - waves - securrents. - wind - waves - securrents. - suff zone - fivers and streams reaching the arait form a biological origin. - distructive waves - - annotate photographs and diagrams to identify characteristics. - Use atlas or internet maps to produce a map of ocean - urment scompario forea - urm	• Sources of energy in	terminology.	include:	zones.	especially erosion and weathering. Some
Opportunity to apply systems theory to identify the inputs, processes, andcoastal sediment cells – to understand these using a systems approach.coastal sediment cells – to understand these using a systems approach.sufficient currents, accompanied by video notes to describe/explain the pattern of ocean currents.Simple map of major ocean cur Exploration of the causes and opproach.Understanding of the concept of understanding of the concept of- Discuss different types ofExploration of the causes and opproach.	 winds, waves (constructive and destructive), currents and tides. Low energy and high energy coasts. Sediment sources, cells and budgets. Geomorphological processes: weathering, mass movement, erosion, transportation and deposition. Distinctively coastal processes: marine: erosion – hydraulic action, wave quarrying, corrosion/abrasion, cavitation, solution, attrition; transportation: traction, suspension (longshore/littoral drift) and deposition; sub- aerial weathering, mass 	 develop skills such as drawing, labelling and annotating diagrams. Opportunity to measure/study characteristics of waves and other coastal processes including erosion, transportation, deposition and weathering. Handling primary and secondary sources of data. Online research. Constructing and interpreting a range of graphical and statistical techniques. Using a range of maps to identify coastal features. Opportunity to apply systems theory to identify the inputs, processes, and outputs operating at 	 backshore foreshore inshore offshore nearshore swash zone surf zone breaker zone. Students will be able to identify, and analyse the characteristics of the sources of energy in a coastal system, including: wind waves tides sea currents. Students will be able to identify the sources of sediment for the coastal system, including: rivers and streams reaching the coast estuaries cliff erosion offshore sand banks material from a biological origin. Students identify the features of coastal sediment cells – to understand these using a systems approach. Understanding of the concept of the coastal sediment budget, including:	 Paired/small group discussion to identify sources of energy at the coast. Students to explore energy at the coast including: Wind - idea of fetch, and global pattern of major winds – opportunity to study atlas maps to identify coasts exposed to large and small fetch Waves – discuss the characteristics of waves. Opportunity to use the internet, text or VLE resources to research the characteristics of waves. Construct diagrams of the characteristics of waves. Research constructive and destructive waves – annotate photographs and diagrams to identify characteristics. Use atlas or internet maps to produce a map of ocean currents, accompanied by video notes to describe/explain the pattern of ocean currents. Discuss different types of ocean currents in the coastal zone. 	Summary of fetch and the effect of wind Interactive map of current surface winds Summary of wave formation Video explanation of many aspects of the features of waves Simple map of major ocean currents Exploration of the causes and effects of surface ocean currents Exploration of <u>ocean currents in coastal</u>

	 approach. Students will understand that coastlines are affected by two main sets of geomorphological processes: marine processes, including: marine erosion – hydraulic action; Wave quarrying; abrasion/corrasion; attrition; contribution of solution/corrosion marine transportation – traction; saltation; suspension; solution; longshore/littoral drift marine and aeolian deposition Sub-aerial processes, including sub-aerial weathering – mechanical/physical; biological; chemical mass movement – landslides; rock falls; mudflows; rotational slip/ slumping run-off. 	construct annotated diagrams to illustrate high and low tides, neap and spring tides, and the role of the alignment of earth, moon and sun. - Research opportunity to find out about high and low energy coasts – possibly produce a short presentation/poster information sheet/electronic resource about each and identify an illustrative example of each. - Q&A/paired discussion about where coastal sediment comes from. Following an introduction to sediment cells, research the sediment cells and sub cells of England and Wales - identify these on an outline map, then identify and map the characteristics of the most local cell. Draw simple flow diagrams to illustrate the concepts of a positive and negative sediment budget. Practice low-tariff exam questions to assess learning – peer assessment opportunity. Q&A/paired discussion – how	currents3 minute video on <u>"motion in the ocean"</u> covering tides and ocean currentsDetailed video exploring tides, with links to activities and other information about tidesA summary of wave characteristics, including high and low energy coastlinesShort video on <u>where coastal sediment</u> comes from'US Geological Survey information on sediment cells and budgetsThere is a Geofile article with a good summary of coastal systems including sediment cells.Maps of the sediment cells of England and Wales are easy to find online.US Geological Survey information on coastal land loss and sediment budgetsVideo introduction to processes of coastal erosionBrief summary of a range of coastal processes including a short video clip illustrating fluvial transport
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does the sea erode the land? Ensure students have notes	Cimple introduction to coastal denosities
	Simple introduction to coastal deposition
of the processes of coastal	but also has links to landforms, climate
erosion.	change and fieldwork ideas.
Group discussion to establish	
the factors affecting the rate	A very simple summary of longshore drift
of coastal erosion.	
In pairs (small groups	Short animation of longshore drift
In pairs/small groups	
research the processes of	A guide to completing an <u>investigation into</u>
marine transportation and	longshore drift
deposition and produce a	
revision resource: mind-map/	
PowerPoint/Prezi	
presentation/animation/	
information sheet/poster etc.	
Construct annotated diagram	
to illustrate the process of	
longshore/littoral drift.	
Q&A to think about the	
conditions under which	
material is deposited at the	
coast – may wish to think	
about wave and wind action.	
Possible fieldwork	
investigation into a range of	
these coastal processes on a	
local beach.	
Following mostly teacher led	
learning around marine	
erosion, transport and	
deposition, there is an	Summary information and video clips of
opportunity for students to	sub-aerial weathering and mass movement
research the processes of	
sub-aerial weathering, mass	
movement and runoff	Lesson ideas for many aspects of coastal

		illustrative examples of places where the processes are occurring (not extended case studies). Again there are opportunities to visit a local coast and investigate which are the dominant weathering processes and why.	
ecific and technical minology. velop knowledge d understanding of ange of related dforms that nbine to form tinctive coastal dscapes. identify nections and errelationships ween different pects of ography.	distinctive coastal landscapes resulting from a combination of related landforms. Students will be able to describe the characteristics and analyse the factors and processes in the development of landforms and landscapes of coastal erosion, including: - cliffs and wave cut platforms - cliff profile features – caves, arches and stacks. Students will be able to describe the characteristics and analyse the factors and processes in the	Q&A/discussion to define 'landforms' and 'landscapes'. For each erosional landform listed in the specification, use a range of resources to produce a revision card/sheet (or electronic resource). To include: - annotated sketch/ diagram showing its characteristics - a flow diagram giving a sequenced explanation of formation – explaining processes in their development. - factors affecting their	Simple resources about various aspects of the coast with many effective images and a range of video clips and diagrams Video clip discussing factors affecting coastal erosion and resultant landforms How erosional landforms are linked with the impacts of climate change Coastal erosion is widely covered in a range of paper or online resources. Video presentation of the effects of coastal erosion including animations of erosional features
id ank tir ds id ank tir ds id ank tir er	ific and technical inology. elop knowledge understanding of oge of related forms that bine to form active coastal scapes. entify ections and relationships veen different cts of	ific and technical inology.distinctive coastal landscapes resulting from a combination of related landforms.elop knowledge understanding of age of related forms that one to form nctive coastal scapes.Students will be able to describe the characteristics and analyse the factors and processes in the development of landforms and landscapes of coastal erosion, including: - cliffs and wave cut platforms - cliff profile features – caves, arches and stacks.entify relationships veen different cts of raphy.Students will be able to describe the characteristics and analyse the factors and processes in the development of landforms and arches and stacks.	are occurring (not extended case studies).Again there are opportunities to visit a local coast and investigate which are the dominant weathering processes and why.of key subject fic and technical inology.Students will revisit the idea of distinctive coastal landscapes resulting from a combination of related landforms.Q&A/discussion to define 'landforms' and 'landscapes'.blop knowledge understanding of uge of related forms that one to form nctive coastal scapes.Students will be able to describe the characteristics and analyse the factors and processes in the development of landforms and landscapes of coastal erosion, including:Q&A/discussion to define 'landforms' and 'landscapes'.entify ections and relationships reen different cts of raphy.Students will be able to describe the characteristics and analyse the factors and processes in the day and processes in the factors affecting their

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Origin and development	develop skills such as	landscapes of coastal deposition,	 reference to inputs, 	coastlines affected by erosion with
of landforms and	drawing, labelling	including:	processes and outputs of	interesting information and images
landscapes of coastal	and annotating	- beaches	erosional coastal	
deposition. Beaches,	diagrams.	 simple and compound spits 	landscapes	
 simple and compound spits, tombolos, offshore bars, barrier beaches and islands and sand dunes; factors and processes in their development. Estuarine mudflat/saltmarsh environments and associated landscapes; factors and processes in their development. Eustatic, isostatic and tectonic sea level change: major changes in sea level in the last 10,000 	Opportunity to analyse and present geographical data employing a variety of graphical techniques and descriptive statistics (see skills checklist). Opportunity to use a range of sources of information to research the impacts of recent and predicted sea level change on coasts.	 tombolos offshore bars barrier beaches and islands sand dunes. Students will be able to describe the characteristics and analyse the factors and processes in the development of estuarine mudflat/saltmarsh environments and associated landscapes. Students will understand the causes and impacts of eustatic, isostatic and tectonic sea level change, especially major changes in sea level in the last 10,000 years.	 a named illustrative example (not developed case study) from a local UK area and one from beyond the UK a summary of the timescales involved in the formation of the landforms. Identify an area of the coast dominated by coastal erosion and the individual landforms that have combined to form the distinctive landscape they see. (There is an opportunity to investigate 	
 years. Coastlines of emergence and submergence. Origin and development of associate landforms: raised beaches, marine platforms; rias, fjords, Dalmatian coasts. Recent and predicted 	Opportunity to construct arguments about the impacts of climate change and come to valid conclusions.	Students will be able to describe the characteristics and analyse the factors and processes in the development of landforms of coastlines of emergence and submergence, including: - raised beaches and marine platforms - rias, fjords and Dalmatian	landforms/landscapes in the field.) For each depositional landform listed in the specification students should follow the same approach as above and use a range of resources to produce a	Coastal deposition is widely covered in a range of paper or online resources. Summary of some depositional features Information on coastal deposition with in-
 climatic change and potential impact on coasts. The relationship between process, time, landforms and landscapes in coastal 		coasts. Understanding of the nature and causes of recent and predicted climate change and the potential impact on coasts.	revision card/sheet (or electronic resource). Then identify an area of the coast dominated by deposition and identify the individual landforms that	depth text and interesting images and photos There is a good <i>Geo Factsheet</i> on coastal deposition.
settings.		Students will explore the relationship between process,	have combined to form the distinctive landscape they	Videos on <u>coastal sand dunes</u> and <u>sand</u> <u>dune formation</u>

time, landforms and landscapes in coastal settings.	see. (There is an opportunity to investigate	
	landforms/landscapes in the field).	
	For each of estuarine	Estuarine mudflats in Pembrokeshire
	mudflats and saltmarsh environments students	Background information on mudflats
	should follow the same approach as above and use a	Summary of saltmarshes
	range of resources to produce a revision card/sheet (or electronic resource).	Simple animation illustrating <u>the locational</u> <u>relationship between mudflats and</u> <u>saltmarshes</u>
	A named illustrative example (not developed case study)	Video of <u>estuarine environments in</u> <u>Cardigan Bay</u> in west Wales
	from a local UK area and one from beyond the UK - identify an area of mudflats and	Estuarine environment beyond the UK: saltmarshes in the USA
	saltmarsh and identify the individual features that have combined to form the distinctive landscape they	Videos giving <u>aerial views of estuarine</u> <u>mudflat</u> and <u>salt marsh landscapes at</u> <u>Morecambe Bay.</u>
	see. Opportunities to assess all	
	aspects with a full range of	
	exam style questions, including peer assessment.	Summary of causes of sea level change:
	Q&A/group discussion – what are the reasons for sea level	good images to explain change and sea levels through recent geological time
	rising and falling? What are the reasons for global and	Video animation of sea level change
	more localized changes in sea level?	around the British Isles in the last 12,000 years – plays in QuickTime
	Establish full definitions of 'eustatic' and 'Isostatic' sea	Summary of coastline features with good

	level change, and the role played by tectonic processes.	diagrams and images- including emergent and submergent features
	Opportunities to use a range of resources to map and	Short video about fjords
	understand changes in sea level throughout the last 10,000 years.	National Geographic encyclopedia entry on fjords
	Opportunity to research the British coastline to identify	Open University <u>video on forming fjords</u>
	examples of emergent and submergent sections of coast.	Information on <u>raised beaches/marine</u> terraces.
	For each submergent and emergent landform listed in	WizScience <u>video on marine terraces</u>
	the specification follow the same approach as above and use a range of resources to	The Geological Society information on <u>the</u> <u>raised beach at Loch Tarbert</u>
	produce a revision card/sheet (or electronic resource).	
	Then identify an area of the coast dominated by	
	deposition and identify the individual landforms that	
	have combined to form the distinctive landscape they see. (There is an opportunity	
	to investigate landforms/ landscapes in the field.)	
	Opportunity for a group research task – students	
	given/find a range of resources on predicted	Intergovernmental Panel on Climate
	future sea level rise. Questions could include:	Change (IPCC) videos on climate change: 2013 video provides good general

			 What is the range of predicted increase in future sea levels? Why is there uncertainty in future predictions? What will the impacts be on coastlines in general? For a specific location what will the impact be on the current landforms that combine to form the landscape? A comparison with the rates of sea level change in the last 10,000 years. Opportunities to assess all aspects with a full range of exam style questions, including peer assessment. 	background IPCC presentation on possible impacts of climate change on sea levels Maps of predicted sea level change over the next 20,000 years National Geographic articles on sea level rise and how this will affect climate change talks Coastal impacts of sea level change from the US perspective Detailed information on ocean impacts of climate change and sea level rise.
 Weeks 6-7 Coastal management Human intervention in coastal landscapes. Traditional approaches to coastal flood and erosion risk: hard and soft engineering. Sustainable approaches to coastal flood risk and coastal erosion management: shoreline management/integrated coastal zone management. 	Use of key subject specific and technical terminology. Opportunity to conduct fieldwork to investigate the characteristics and effectiveness of different approaches to coastal management. Online research. Handling primary and secondary sources of data. Construct and	Students will be able to understand why people manage different coastlines in different ways. Students will be able to identify and describe traditional approaches to coastal flood risk and coastal erosion, including: - hard engineering – sea walls; rock armour/rip rap; gabions; revetments; groynes; cliff fixing; offshore reefs; barrages - soft engineering – beach nourishment; dune regeneration; managed retreat; land-use management; 'Do nothing'.	 Paired/small group discussion with feedback/snowballing to the group as a whole. Possible questions include: Why should people manage the coastline? Why might some stretches of coastline be managed differently? What techniques could be used to manage different coastlines? Having studied a range of hard and soft engineering strategies (this is well 	Coastal management, and hard and soft engineering approaches are topics that are well resourced in books and online - a sample of resources below: Fieldwork Studies Council s <u>ummary of approaches to coastal management</u> strategies and different approaches available, with reference to fieldwork opportunities. Summary article on some coastal management approaches Strategies used along one stretch of coastline at Pevensey Bay in East Sussex

interpret a range of graphical and statistical techniques. To use a range of maps to identify different management approaches. Opportunity to assess different coastal management approaches, including activities such as cost-benefit analysis etc, and come to valid conclusions.	covered in textbooks and online resources), there is an opportunity to develop understanding and illustrate learning by completing a study of a local coastlineThis could involve fieldwork or be classroom based.Activities could include: - finding a map of the area - mapping the extent of different management strategies employed - describing each strategy - explaining how each strategy protects the coast - suggesting why each strategy has been used in each location - If field data is collected, this could be analysed alongside information on costs and benefits etc.Reminder of the definition of 'sustainability' and 'sustainability' and 'sustainability of each of the approaches studied.Opportunity to research sustainability of each of the approaches studied.Opportunity to research sustainability of each of the approaches to coastal flood and erosion management in the 21st	Simple video about Pevensey and sea defenses

Century, including Shoreline Management Pians, Possible tasks include: - research the background to SMPs - identify how the British Coastiline is separated into SMPs - produce a mini-illustrative example of the features of the SMP most local to them. Opportunity to conduct research into Integrated Coastal Zone Management (ICZM) - What are the origins of ICZM? - What is the background to why an integrated coastal management is needed? - Why is concentrating on people and economic activity putting pressure on coastal environments? - What are the specific issues facing coastal environments in the future? - Who are the stakeholders, who should be considered when thinking about coastal management is about coastal management is product when thinking about coastal management is product when thinking about coastal management is product when thinking about coastal management is not coastal environments on the future? - Who are the stakeholders, who should be considered when thinking about coastal environments on the future? - Who are the stakeholders, who should be considered when thinking about coastal environments on the future? - Who are the stakeholders, who should be considered when thinking about coastal environments on the concept and policies of ICZM	Construme including Changeling
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features of SMPs - produce a mini-illustrative example of the features of the SMP most local to them. 20min interview with Dr. Burbridge from Newcastle University on Integrated Coastal Zone Management (ICZM). Possible questions include: · What are the origins of ICZM? · What is the background to why an integrated coastal management is needed? · What is the background to why an integrated coastal management is needed? · Why is concentrating on coastal environments? · Why is concentrating on coastal environments? · Summary of the importance of ICZM for planning, with useful summary diagrams · Why is concentrating on coastal environments? · Who are the stakeholders, who should be considered when thinking about coastal management? · Summary of the origin of the concept and policies of ICZM	SMPs It is quite easy to find information about
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Image: Second	- produce a mini-illustrative
them.Opportunity to conduct research into Integrated Coastal Zone Management (ICZM). Possible questions include: • What are the origins of ICZM? • What is the background to why an integrated coastal management is needed? • Why is concentrating pressure on coastal environments in the future? • Who are the stakeholders, who should be considered who should be conside	example of the features of
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			as a cyclical process? Opportunity to research the local ICZM plan for a local coastline. Opportunities to assess all aspects with a full range of exam style questions, including peer assessment – also skills and fieldwork assessment.	
Weeks 8-9 Case study 1 Case study(ies) of coastal environment(s) at a local scale to illustrate and analyse fundamental coastal processes, their landscape outcomes as set out above and engage with field data and challenges represented in their sustainable management.	Collect, analyse and interpret a range of qualitative and quantitative data from a range of primary and secondary sources – this could include discursive/creative material when looking at the experiences of people in place. Present, analyse, draw conclusions and evaluate those findings using a range of geographical techniques (see skills checklist).	Students could either study a local coastal landscape through the use of secondary data sources (including online digital mapping, secondary data, local authority websites and text book resources) or engage first hand or complete fieldwork to collect primary data, or a combination of both. The aims of such work are to: - illustrate how the coastal landscape is distinctive and is the unique combination of the processes and environmental characteristics that created it at a local scale - to investigate and understand how the combination of local coastal processes and landscape features present specific challenges for sustainable management. If students complete a fieldwork investigation, they will be able to follow through a complete	An opportunity to create a 'virtual fieldwork investigation' and provide a range of data relating to a local coastal environment for students to investigate and address the themes of the enquiry. Or, an opportunity for students to conduct a short fieldwork enquiry of a local coastal environment to investigate the main themes of the lesson. Students could write-up a mini-fieldwork enquiry to act as a case study of a local coastal environment. (This could feed into the completion of coursework for the Non-examination assessment element of the specification).	Many of the accompanying textbooks will have illustrative examples of possible coastal fieldwork opportunities and other guidance may be found below. <u>RGS guidance on coastal investigation</u> <u>RGS guidance on fieldwork techniques</u> <u>Field Studies Council guidance on coastal fieldwork</u>

Case study of a contrasting coastal landscape beyond the UK to illustrate and analyse how it presents risks and opportunities for human occupation and development and evaluate human responses of resilience, mitigation and adaption.	Collect, analyse and interpret a range of qualitative and quantitative data from a range of primary and secondary sources – this could include discursive/creative material when looking at the experiences of people in place.	 geographical investigation and route to enquiry. This example is based on an investigation of the Sundarbans region of Bangladesh. Students will be able to describe, analyse and evaluate a range of themes relating to how the human population of the Sundarbans interacts with their coastal landscape, including: an understanding of the coastal processes that combined to create this unique coastal landscape the challenges and risks of living in the Sundarbans the opportunities offered by living in the Sundarbans the human response to the challenges of the Sundarbans, including strategies aimed at resilience, mitigation and adaptation the potential for possible sustainable development in the future for the people of the Sundarbans. 	Opportunity for individual, paired or group research task, using a range of textual, digital or audiovisual resources. Findings could be shared in traditional classroom approaches or shared through a VLE on a blog for example. For a more active learning approach students could research from the point of view of different stakeholders. Feedback could then take the form of a debate/roleplay or construction of SWOT analysis in groups etc.	Information is readily available about the Sundarbans, but a selection is given below: Overview information of the Sundarbans Welcome to the Sundarbans Encylopedia of Earth US Aid information on the environment and global climate change
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Students must engage with a range of quantitative and relevant qualitative skills, within the theme landscape systems. These should include observation skills, measurement and geospatial mapping skills and data manipulation and statistical skills applied to field measurements.

Making connections

Students must consider connections across the themes within the theme of coastal systems and landscapes, connections between this and other themes in the specification and connections with novel geographical themes beyond the specification.