

A'Level Coastal Systems & Landscapes – Summer 2019 Bridging Work

Like many physical Geography topics Coastal studies can be broken into 4 major sections: Inputs, Processes, Outputs & Management. The areas that you need to be really familiar with before the start of the course in September are: Coastal Systems, Coastal Processes and Coastal Features. Please read the 2 supporting textbook documents and complete the tasks below and use the following videos to help: https://timeforgeography.co.uk/videos_list/coasts/. See you in September – From Mrs Bell

Coastal Systems		Waves – There are 2 different categories of waves and they are defined by their characteristics please complete the table below to show these.																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 5px;">Inputs</td> <td style="padding: 5px;"> <ul style="list-style-type: none"> • E _____ • S _____ </td> </tr> <tr> <td style="padding: 5px;">Processes</td> <td style="padding: 5px;"> <ul style="list-style-type: none"> • W _____ e.g. _____ • E _____ e.g. _____ • T _____ • D _____ </td> </tr> <tr> <td style="padding: 5px;">Outputs</td> <td style="padding: 5px;"> <ul style="list-style-type: none"> • E _____ F _____ e.g. _____ • D _____ F _____ e.g. _____ </td> </tr> </table>	Inputs	<ul style="list-style-type: none"> • E _____ • S _____ 	Processes	<ul style="list-style-type: none"> • W _____ e.g. _____ • E _____ e.g. _____ • T _____ • D _____ 	Outputs	<ul style="list-style-type: none"> • E _____ F _____ e.g. _____ • D _____ F _____ e.g. _____ 	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Type of Wave</th> <th style="width: 40%;">Definition</th> <th style="width: 15%;">C _____</th> <th style="width: 20%;">D _____</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Height</td> <td style="padding: 5px;">The distance between the top of the crest and the base of the trough.</td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Wavelength</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Frequency</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Swash</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding: 5px;">Backwash</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			Type of Wave	Definition	C _____	D _____	Height	The distance between the top of the crest and the base of the trough.			Wavelength				Frequency				Swash				Backwash			
Inputs	<ul style="list-style-type: none"> • E _____ • S _____ 																																
Processes	<ul style="list-style-type: none"> • W _____ e.g. _____ • E _____ e.g. _____ • T _____ • D _____ 																																
Outputs	<ul style="list-style-type: none"> • E _____ F _____ e.g. _____ • D _____ F _____ e.g. _____ 																																
Type of Wave	Definition	C _____	D _____																														
Height	The distance between the top of the crest and the base of the trough.																																
Wavelength																																	
Frequency																																	
Swash																																	
Backwash																																	
<ul style="list-style-type: none"> > Where does the energy in the coastal system originate? _____ > What controls the extent of the processes that are taking place? _____ > _____ <p>Key Terms – Please add the relevant definitions below.</p> <ul style="list-style-type: none"> - Fetch: _____ - Longshore Drift: _____ - Swash: _____ - Backwash: _____ 		<p>Which section of the 'coastal system' do waves belong to and why? _____</p> <p>What controls the type of wave an area experiences? _____</p>																															
Coastal Processes – Weathering What is meant by the term Sub-Aerial Processes? _____ _____ _____ There are 3 categories of weathering; for each one give a brief description and an example and a type of geology that would be most susceptible to this type.	Coastal Erosion There are 4 main methods of coastal erosion at the coast: - Hydraulic Action: Where the sheer force of the water crashes into the cliffs and wears away the rock face. - Abrasion: Where the sediment being transported along the coast, by the sea, and is thrown at the cliff face. - Attrition: Where the sediment being transported along the coast, by the sea, crashes into other loose material making it smaller, rounder and smoother. - Solution: A chemical reaction takes place between the material that the shoreline is made of and the sea water and the elements begin to dissolve / breakdown. Where on the cliff face does erosion take place? (Be specific!) _____ What 3 things control the amount of erosion taking place in a coastal zone? _____ _____ Which method is the 'odd one out' and why? _____	Coastal Transport There are 4 ways that material can be moved along the coastline by the sea. Give a definition for each type: 1) Traction: _____ _____ 2) Saltation: _____ _____ 3) Suspension: _____ _____ 4) Solution: _____ _____ What two factors control which method will take place? 1) _____ 2) _____ Draw a simple, labelled diagram to show how LSD works. <div style="border: 1px solid black; height: 50px; width: 100%;"></div>	Coastal Deposition What is the MAIN cause of deposition at the coast? _____ _____ Give 3 reasons why this could happen? 1) _____ 2) _____ 3) _____ What potential impact would encouraging deposition in an area have for surrounding environments (both positive and negative)? <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Positive</th> <th style="width: 50%;">Negative</th> </tr> </thead> <tbody> <tr> <td style="height: 50px;"></td> <td style="height: 50px;"></td> </tr> </tbody> </table>	Positive	Negative																												
Positive	Negative																																
Weathering and erosion often leads to mass movement. Give 5 key terms / phrases that can be associated with this term and at least one example. _____ _____ _____		Coastal Features of Erosion – There are lots of different features created by erosion and many form in a series of steps and lead to the creation of other features. Using the videos and the textbook information please list / name 9 erosional features. 1) W _____ C _____ N _____ 2) W _____ C _____ P _____ 3) C _____ 4) H _____ 5) B _____ 6) C _____ 7) A _____ 8) S _____ 9) S _____																															
Coastal Features of Deposition What is a beach? _____ What is a spit? _____ Describe the formation of a spit: _____ _____ _____ What is the difference between a spit, a bar and a tombolo? _____ _____		Below draw a comic strip to show how one of your chosen group of features is formed. (1-3), (4-5) or (6-9). <div style="border: 1px solid black; height: 100px; width: 100%;"></div>																															

A'Level Coastal Systems & Landscapes – Summer 2019 Bridging Work