**Coastal landscape development Review Notes – Erosional landforms**

Your task is to complete a complete set of notes for each of the following erosional landforms. You need to make sure that you have answered all the questions and completed all the tasks. The powerpoint and textbook pages will help you with your task and the level of detail that is required.

|  |  |  |
| --- | --- | --- |
| **Cliffs and Wave-cut platforms**  **(Oxford p122)** | **Caves/arches/stacks/stumps**  **(Cambridge p79-80)** | **Headlands and Bays**  **(Hodder p103-104)** |
| What is a wave-cut platform?  Draw a quick annotated sketch of a cliff and wave-cut platform.  Explain the sequence of events that create a wave-cut platform.  Why do wave-cut platforms rarely extend for more than a few hundred metres?  Why is this an example of negative feedback?  What inputs, processes and outputs are responsible for their formation? e.g. wave energy (input), weathering and erosion (processes), material from cliff collapse (output).  Assess the processes. Which are the most dominant? (Weathering, erosion, transportation?)  Named example in the UK and one overseas. What types of rock are these examples? | Draw a quick annotated sketch of the cave, arch, stack and stump formation.  Explain the sequence of events.  What inputs, processes and outputs are responsible for their formation? Annotate your sketch to show this.  Assess the processes. Which are the most dominant? It may be that different processes are dominant on different parts of the cliff.  Named example in the UK and one overseas. What types of rock make up these examples? | Why do headlands and bays form on certain sections of coastline?  Use the powerpoint slide to draw a sketch to show how they are formed.  Are these landforms found on discordant or concordant coastlines?  Why are headlands more vulnerable to the forces of erosion than the bays?  Name an example in the UK and overseas. |

**Can you analyse the factors and processes in the development of each of the following landforms?**

|  |  |  |
| --- | --- | --- |
| **Cliffs and Wave-cut platforms** | **Cliff profiles** | **Caves/Arches/Stacks/Stumps** |
| What weathering processes are acting on each landforms?  What erosional processes are acting on each landform?  What type of mass movement is acting on each landform?  How does wave refraction help the development of caves/arches/stacks/stumps? | | |

**What are discordant/concordant coastlines?**

**With reference to the Dorset coast, how has the coastal landscape been influenced by the geology of the coast?**

|  |  |
| --- | --- |
| **Coves**  **(Powerpoint)** | **Cliff profile and rate of retreat**  **(Oxford p123-124)** |
| Make a sketch of Lulworth Cove in Dorset using the powerpoint slide.  Explain how coves form on concordant coastlines. | Where is it the steep cliffs are likely to occur?  Where is it that gentle cliffs are likely to occur?  What factors determine the rate of cliff retreat?  What is coastal morphology?  What is meant by:-  Stata  Bedding plains  Joints  Folds  Faults  Dip?  How do the above influence rates of cliff retreat? |