



## Landscape Systems – Option A – Coastal Landscapes

1. Complete the table of pictures of coastal features along with the type of coastal landform.
2. You know that spits, bars and tombolos are formed by longshore drift. Using the example of the tombolo joining Portland to the mainland via Chesil beach research how else it could have been formed. Use diagrams and maps to explain your answer with about half to a page of writing. Your explanation needs to be in your own words.
3. **Coastal sediment is supplied from a variety of sources.**  
Research this part of the specification to A'Level standard. It needs to be written in your own words and a minimum of two sides (A4) of writing. You can use diagrams to illustrate this work in addition to your writing.

You need to think about:

- Defining and explaining the three main key sources of coastal sediment – Terrestrial, Offshore and Human.
- For each one of these key sources break them down into how the sediment arrives on the beach. Maybe mind map or spider diagram this or create a diagram illustrating the main sources of coastal sediment.
- Try and bring in systems regarding inputs, outputs and stores.
- You need to investigate what proportion of each source is on certain beaches. Does this create a surplus or deficit of sediment.
- You need to include some examples from the UK and from around the world. You need to include one case study. I suggest you choose from one of the following as we will be studying the following case studies in the Autumn Term:  
A low energy coastal environment – Nile delta, Egypt  
A high energy coastal environment – Saltburn to Flamborough Head, Yorkshire.  
Other case studies where coastal sediment will be looked at during the course are:  
Sandbanks, Poole, Dorset and Mangawhai-Pakiri coast, New Zealand.

These links may be useful, note not an exhaustive list:

<http://www.alevelgeography.com/coastal-sediment-budget/>

<http://jncc.defra.gov.uk/pdf/GCRDB/v28chap1.pdf>

[https://en.wikipedia.org/wiki/Sedimentary\\_budget](https://en.wikipedia.org/wiki/Sedimentary_budget)

<https://geographyas.info/coasts/introduction-to-coasts/>

<http://www.scopac.org.uk/sediment-budget.html>

<http://www.scopac.org.uk/sediment-transport-update.html>

<https://www.niwa.co.nz/our-science/coasts/research-projects/all/physical-hazards-affecting-coastal-margins-and-the-continental-shelf/news/erosion>

[https://pubs.usgs.gov/of/2008/1206/html/figs/fig5\\_1.html](https://pubs.usgs.gov/of/2008/1206/html/figs/fig5_1.html)

Please email [jri@bewdley.worcs.sch.uk](mailto:jri@bewdley.worcs.sch.uk) if there are any problems and I will get back to you as soon as I can.

**Table of National and International coastal features.**

*You may want to enlarge the boxes if so email me and I will send it to you so easy to adapt.*

*Research to find what type of landform (save good links for further work on this in the Autumn Term). You need a picture of the feature within the UK and outside the UK + locate where it is and include a name if it has one e.g. Old Harry as a stack in Dorset, UK.*

<b>Feature</b>	<b>Erosional, depositional, emergent or submergent landforms?</b>	<b>National example</b>	<b>International example</b>
Bay			
Headland			
Cliff			
Shore platform			
Geo			
Blow hole			
Cave			
Arch			
Stack			
Stump			
Beach (may want to include examples which may include the following			

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sandy/rocky/ mixed /natural /manmade).			
Spit			
On-shore bar			
Tombolo			
Salt marsh			
Raised beach			
Marine terrace			
Abandoned cliff			
Ria			
Fjord			
Shingle beach			