Preparation for A-Level Geography (physical)

Key Terms: isostatic and eustatic change; storm surge; sediment cell; dynamic equilibrium; terminal groyne effect

A-Level Topic: coastal landscapes and change

Key Question: What's the biggest threat to our coastline?

Britain's coastline is over 11000 miles long according to the Ordnance Survey. That's a lot of coastline! The coastal zone offers many benefits to humans with around 3 million people living on our coastline, but it faces various threats. Some of these threats are widespread others may be localised; some have a rapid onset while others develop gradually; some are more severe than others; and some are more likely to occur than others. Your job here is to assess these varying threats.

What to do	What to read	What to watch
	https://www.bbc.co.uk/bitesize/topics/zs3ptyc a	https://www.youtube.com/watch?v=ilG7R0tA0Sw clear
Use the resources provided to write	useful refresher from your GCSE work on coasts	explanation of the differences between eustatic and isostatic sea
notes that answer the following	https://www.bgs.ac.uk/discoveringGeology/climateCh	level change
questions:	ange/general/coastal.html explanation of sea level	https://www.youtube.com/watch?v=kYvT9VKAq6c an explanation
	change and impact on coastlines – it's not just about	of coastal sediment cells and their role in coastal change
1) What are the different threats	climate change	https://www.youtube.com/watch?v=lW3dSWkhog0 the human
to our coastline?	http://geologylearn.blogspot.com/2015/07/coastal-	impact of coastal erosion
2) How do they vary in scale	erosion.html this piece refers to a variety of influences	https://www.youtube.com/watch?v=YpmfyTjDKIM news report
and potential impact?	on coastal change including geology and human action	on coastal flood threat
What makes some coastal	(note it is written from an American context)	https://coastal.climatecentral.org/map/12/-
areas more vulnerable than	https://nerc.ukri.org/planetearth/stories/1812/ a	4.0688/51.067/?theme=sea_level_rise↦_type=coastal_dem_c
others? 4) What is the biggest threat and how do you justify your view?	brief overview of major coastal flooding events in the	omparison&contiguous=true&elevation_model=coastal_dem&for
	UK	ecast_year=2050&pathway=rcp45&percentile=p50&return_level=
	https://www.internetgeography.net/topics/withernse	return level 1&slr model=kopp 2014 an interactive map
	a/ case study from Withernsea, East Yorkshire	showing impact of projected sea level rise. Use the 'choose map'
	showing negative side effects of coastal management	and 'change other settings' tabs to investigate different
		projections



What to submit

Using your notes, write a **one-page report** that answers the key question: **'What's the biggest threat to our coastline?'** Your report should be well presented and informative to show an understanding of the content that you have been investigating. Use the key questions above to help you structure your writing and refer to evidence and examples. You can add any maps, images or diagrams to illustrate your points. Try to reach a conclusion to the key question. Please email your completed one page report to Mr Kelly by June 19th.