# WORKBOOK

**AQA A-LEVEL** 

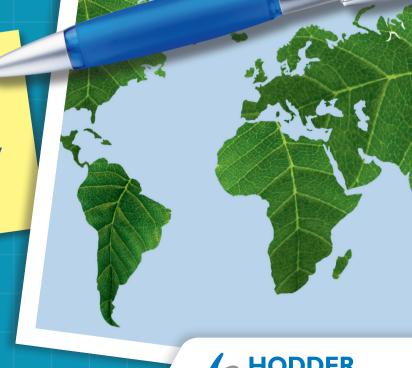
# Geography 1

### **PHYSICAL GEOGRAPHY**

- Water and carbon cycles
- Hot desert systems and landscapes
- Coastal systems and landscapes
- Glacial systems and landscapes
- Hazards

- Confidently prepare for assessment with exam-style questions
  - Online answers to every question

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## **Contents**

Exam-style questions ......56

1	Water and carbon cycles	4	Glacial systems and landscapes
2	Hot desert systems and landscapes	5	Hazards
3	Coastal systems and landscapes		• Fires in nature  Exam-style questions107



### Coastal landscape development

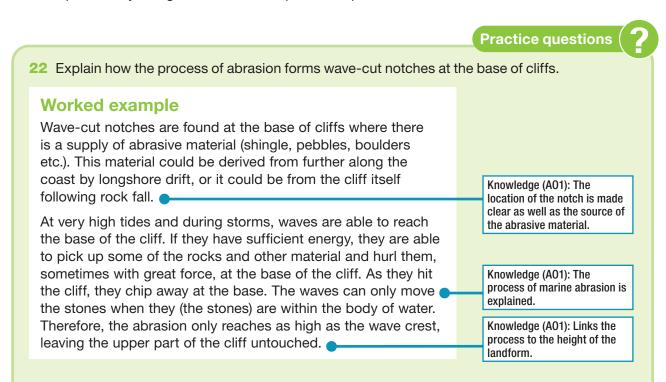
Coastal landforms and landscapes can be categorised into the following types:

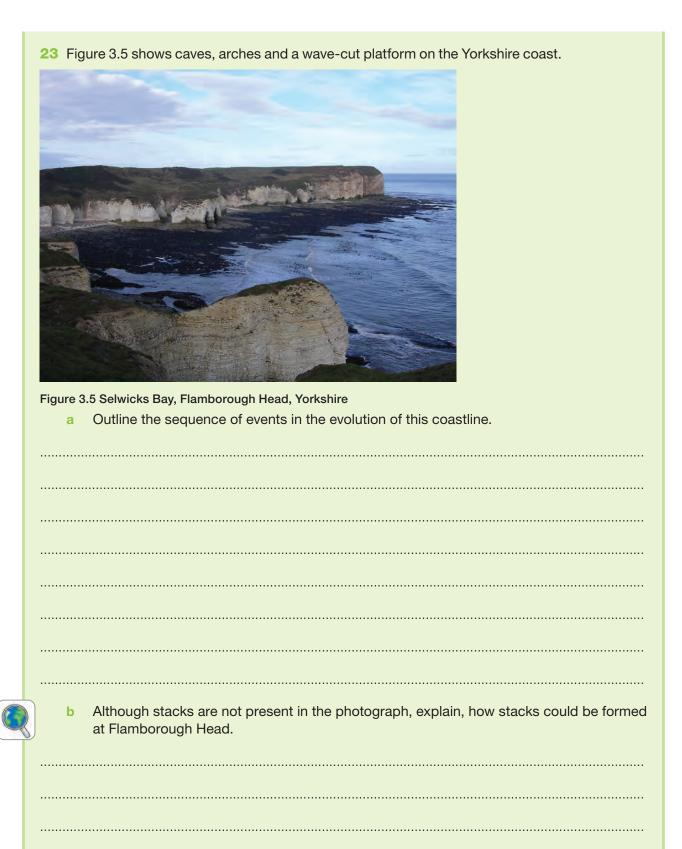
- Landforms and landscapes of coastal erosion. These include cliffs and wave-cut platforms, and cliff profile features including caves, arches and stacks.
- Landforms and landscapes of coastal deposition. These include beaches, spits, tombolos, offshore bars, barrier beaches and islands, and sand dunes.
- Estuarine mudflat/saltmarsh environments and associated landscapes.

Sea levels are not static. Global sea levels have risen approximately 120 m since the height of the last ice advance 18,000 years ago. This has given rise to 'drowned' coastlines, including rias, fjords and Dalmatian coasts.

Some coastlines have risen locally, emerging from under the water. This forms emergent landforms, including raised beaches and marine platforms.

Predicted climate change (global warming and increasingly extreme weather events) could eventually lead to rising sea levels with greater coastal flooding and erosion, particularly along coastlines in the path of tropical storms.





Exam-style set 1	
1 Outline <b>two</b> weathering processes that take place on coastlines. (AO1)	4 marks
2 Study Figure 3.10 (a) and (b). Using the figure and your own knowledge, assess the extent to which different types of waves have different effects on beaches.	<b>(7</b>
(AO1, AO2)	6 marks
a b	
	1000
Figure 3.10 Contrasting wave types	

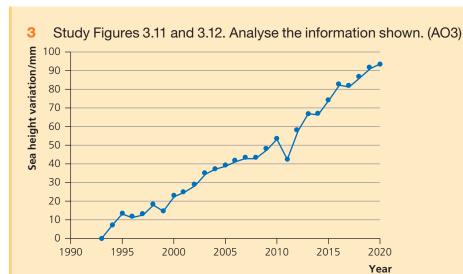


Figure 3.11 The variation in sea height from a base level set in 1993

Data from https://sealevel.nasa.gov/understanding-sea-level/key-indicators/global-mean-sea-level

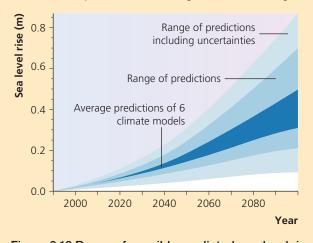


Figure 3.12 Range of possible predicted sea-level rise

Source: NASA Earth Observatory

4 'Climate change presents both risks and opportunities for human occupation of coastlines.'

With reference to a named coastal landscape beyond the UK, to what extent do you agree with the above statement? (AO1, AO2)

20 marks

Plan and write your answer on a separate sheet of paper and keep it with your workbook.