Name:	Group:	

Unit: Physical landscapes in the UK. Coastal landscapes in the UK

Revision guide companion

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- 1. Wave types and characteristics
- 2. Coastal weathering and erosion
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- 6. Coastal erosion and management case study

Different types of wave, constructive and destructive				
Destructi	Destructive waves			
The waves that	Destructive wave - annotated sketch			
Destructive waves have				
They are				
They are				
Their backwash				
Construct	ive waves			
Constructive waves have	Constructive wave - annotated sketch			
They're low and long.				
The swash is				
The backwash is				

Coastal weathering and erosion Rock is broken down by mechanical and chemical weathering Mechanical weathering is... Chemical Weathering is... Mass movement Sliding 1. Mass movement is... 2. They're more likely... 3. Three types: Slumping Rock falls

Waves wear away the coast using four main types of erosion		
Hydraulic Power	Abrasion	
Attrition	Solution	

Coastal landforms caused by erosion				
Headlands and bays form where erosion resistance is different				
Some types of rock	Annotated sketch			
Headlands and bays				
The less resistant				
The resistant rock				
Wayes are do cliffs to form ways sut platforms				

Waves erode cliffs to form wave-cut platforms					
1. Waves cause					
2. This forms a	2. This forms a				
3. The rock above					
4. The collapsed ma	terial				
5. Repeated collapse	<u></u>				
6. A wave-cut platform					
Annotated Diagrams to show the sequence					

Headlands are eroded to form caves, arches and stacks 1. Headlands are... 2. Waves crash... 3. Repeated erosion... 4. Continued erosion... 5. Erosion continues... 6. This forms a ...

Headlands are eroded to form caves, arches and stacks

Add annotations to show where specific erosion is operating and the role of gravity.

Coastal transportation Coastal transportation is the movement of material Material is transported along the coast by the process of longshore drift. Waves follow the direction... They usually hit the coast... The swash... The backwash... Over time... Annotated sketch to show longshore drift.

There are four processes of transportation that you need to know about:		
Traction (pushed)	Saltation (bounced)	
Suspension (carried)	Solution (dissolved)	

Coastal deposition

Deposition	is th	e dron	ning	of ma	aterial
DEPOSITION	13 UI	e ui op	י צווועי	OI IIIG	atei iai

- 1. Deposition is when...
- 2. Coasts are...
- 3. The amount of material...
- 4. Low energy or constructive waves...

Coastal landforms caused by deposition

Beaches are formed by deposition

- **1.** Beaches are found...
- **2.** They are formed by ...
- **3.** Sand and shingle beaches...

Sand beaches are flat and wide...

Shingle beaches are steep and narrow...

Spits and Bars are formed by longshore drift			
Spits are just			
Spits: 1. Spits form			
2. Longshore drift			
3. Strong winds			
4. The sheltered area			
5. Over time			
1. Start	2. Finish		
1. Spit and Bay - Annotated Sketch	2. Bar - Annotated Sketch		

Example: Section of coastline in the UK and its landforms of erosion and deposition

Coastal management includes both hard and soft engineering strategies
Hard engineering

Strategy	What it is	Benefits	Disadvantages
Sea wall			
Rock armour			
Gabion			
Groyne			

Soft engineering	

Strategy	What it is	Benefits	Disadvantages
Beach nourishment and reprofiling			
Dune regeneration			
Managed retreat			

Example: Coastal management scheme in the UK			
Reasons for management			
Management strategy			
Resulting effects and conflicts			