



Y9 Golden Thread –
How does geography impact people the environment and the economy?

Which impacts have you studied in this unit?

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How have you demonstrated the skill to analyse?

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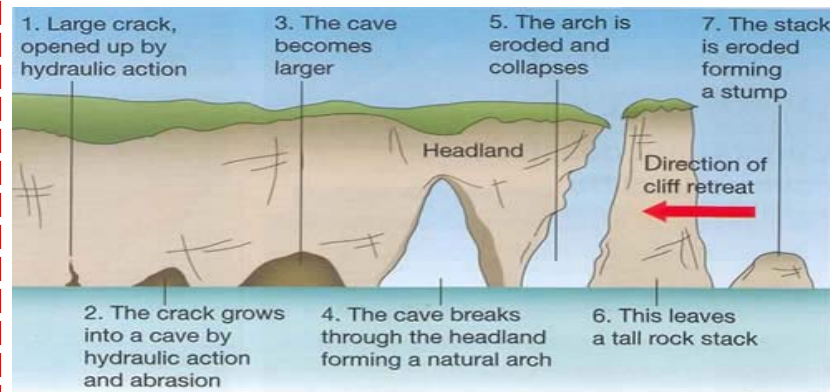
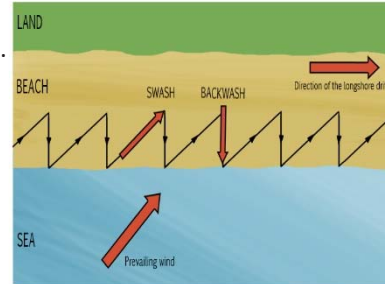
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KS3 Geography – Y9: Coasts Knowledge Organiser

Longshore Drift

1. Waves approach the coast at an angle.
2. Swash carries sediment up the beach at an angle.
3. Backwash carries sediment down the beach with gravity - at right angles to the beach.
4. This creates a zig-zag movement of sediment along the beach.

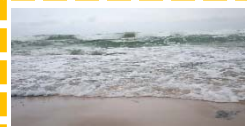


Hard engineering	Strategies which use manmade, artificial structures to help manage the coastline and prevent erosion.
Sea Wall	A strong concrete wall built in front of the cliff/settlement that absorbs the wave's energy. A curved sea wall reflects the wave back to sea.
Groynes	Wood or rock fences built out into the sea. They trap sediment transported by longshore drift and make the beach larger.
Soft engineering	Strategies which use natural, environmentally friendly methods to managing the coast.
Beach Nourishment	Adds sediment to the beach to make it wider. The widened beach acts as a barrier from the waves and reduces erosion and flooding.
Managed retreat	A controlled and deliberate decision to allow the sea to flood an area of low-value land, for example farm land.



Here are some key words from this topic. **Can you add anymore?**

coast	Where the land meets the sea.
hydraulic action	the force of water entering cracks in the rock causes air to become trapped, causing the rock to break apart
abrasion	rocks scrape and grind along a rock platform, making it smoother
longshore drift	The zig zag movement of transported material along the coastline. It is transported in the direction of the prevailing wind.
engineering	Ways of controlling the extent of damage caused by river flooding and or erosion.



Swash: water that rushes up the beach.



Backwash: water that flows back down the beach towards the sea.

CEIAG Link: For this topic we can make links to a variety of professions:

- Flood & Coastal Risk Management
- Environmental Project Engineer
- Coastal Engineer
- Coastal Operations Officer - Maritime & Coastguard
- Project Manager for coastal defences
- Town Planner
- Coastal Warden
- Environmental Agency Advisor
- Environmental consultant



If you are interested in the above careers, don't forget you can do some research and speak to Mrs Ackroyd.