

Which factors link to today's learning?  
Social / Economic / Environmental

## KS4 Geography - Y11: Physical Landscapes in the UK - Coasts

### Knowledge Organiser



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



### The Big Picture

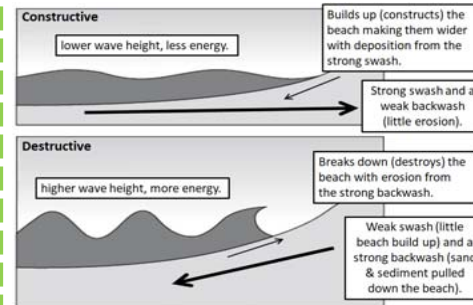
- What sort of landscapes does the UK have?
- How do waves erode the coast?
- What are weathering and mass movement?
- How do transportation and deposition affect the coast?
- How does geology influence the coast?
- What coastal features are formed by erosion?
- What coastal features are formed by deposition?
- What coastal landforms can be found in Swanage?
- To what extent are hard and soft engineering beneficial when protecting the coast?



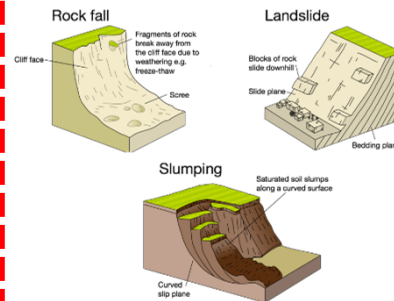
**Swash:** water that rushes up the beach.



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



**Mass movement** is the shift (falling) of large amounts of material down a slope, due to the influence of gravity and other forces.

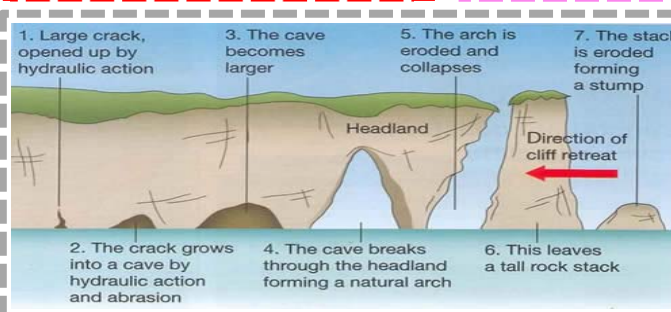


Exposed rocks along the coastline can be broken down by the processes of weathering.

#### Freeze Thaw weathering



#### Biological weathering



hydraulic action	the force of water entering cracks in the rock causes air to become trapped, causing the rock to break apart
attrition	rocks carried by the sea knock into each other, becoming smaller, smoother and rounder
abrasion	rocks scrape and grind along a rock platform, making it smoother
hard engineering	strategies involving the building of entirely artificial structures using various materials such as rock, concrete and steel to control natural processes and reduce flooding and erosion.
soft Engineering	strategies involving the use of less intrusive, environmentally friendly methods that work with natural processes to protect the coast.

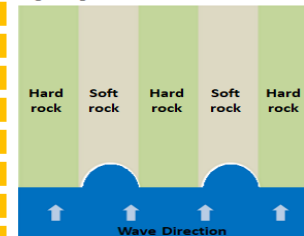
**CEIAG Link:** For this topic we can make links to a variety of professions:

Flood & Coastal Risk Management  
Coastal Engineer  
Town Planner  
Tidal Hydrologist  
Coastal Warden  
Environmental Agency Advisor



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

**Discordant** coastlines are made up of alternating bands of hard and soft rock at right angles to the coast.



**Concordant** coastlines are made up of alternating bands of hard and soft rock running parallel to the coast.

