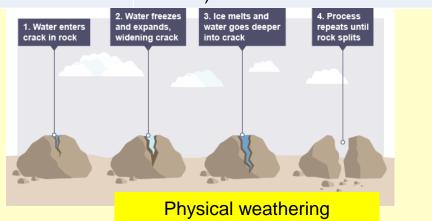
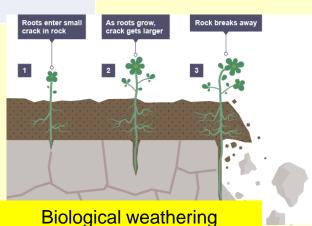
Key Term	Definition
Landscape	The main features or characteristics of an area.
Landform	A natural feature made by coastal processes e.g. stack, cliff, beach
Processes	Actions that lead to changes in places e.g. erosion, longshore drift, deposition.
Weathering	The wearing away of rocks by the weather, plants and animals.
Erosion	The wearing away and removal of rocks by ice, the sea, rivers or the wind.
Longshore drift	How sand and pebbles are carried along the coast.
Deposition	When the sea is calm and it drops the and pebbles that it has been carrying.
Coastal management	Also called sea defences. Things done to protect people from the sea (flooding or erosion).



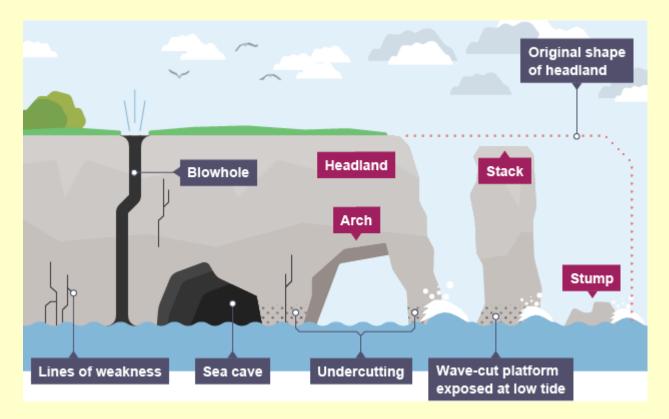


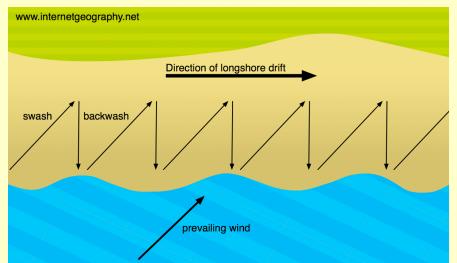
YEAR 7 KNOWLEDGE ORGANISER: What are landscapes like in the U.K?

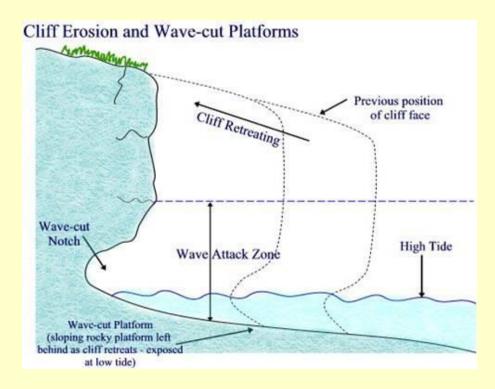


Chemical weathering

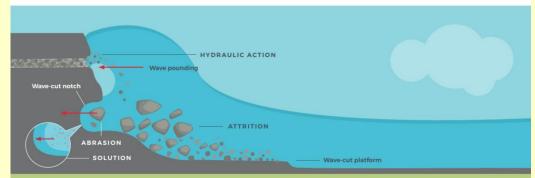
Rainwater and seawater can be a weak acid. If a coastline is made up of rocks such as limestone or chalk, over time they can become dissolved by the acid in the water.







COASTAL EROSION



Erosion is the wearing away of the land by the sea. Destructive waves erode the coast in a number of different processes:

HYDRAULIC ACTION

When waves hit a cliff, air is compressed into cracks. When the wave breaks, the air rushes out of the gap causing erosion.

ABRASION

Bits of rock and sand in waves grind down cliff surfaces like sandpaper.

ATTRITION

Waves smash rocks and pebbles on the shore into each other, and they break and become smaller and smoother.

SOLUTION

Acids contained in sea water will dissolve some types of rock such as chalk or limestone.

Hard engineering

Type / Location	Advantages	Picture	Disadvantages
Concrete Sea Wall	Deflects Waves		Expensive
(HARD technique)	- Strong		Likely to need repair fairly
Deflects the waves	- Effective	-	regularly
	Lasts a long time	and the second	Deflected waves can 'scour' sea bed and undermine the sea
(Withernsea, East Yorkshire)			wall foundations
Groynes / Breakwater	Builds up the beach	The second	Need repairs
(HARD technique)	Makes a wider beach		 OK with medium waves – but strong waves still get to cliff face
Wooden or boulder 'fences'	Provides calm water	and the second s	Leads to faster cliff erosion down
designed to trap & accumulate sand.	Encourages tourism	The state ball and the	the coast by robbing it of potential beach material.
(Hornsea, East Yorkshire)		All season and	
Gabions	Easily installed		Not very attractive
(HARD technique)	Cheaper than sea wall	Conservation of	Needs frequent checking &
Wire cages filled with stones/			repair
rocks stacked along the cliff base			Not easy for people to get over to get to beach
(Easington, E. Yorkshire)			May contain rats nests
Rock Armour / Rip-Rap	Popular option in recent years – seen to be effective		Not very attractive
(HARD technique)			Not easy for people to get
Granite boulders (very resistant)	Cheaper than sea wall		over to get to the beach (broken ankles)
(Withernsea, East Yorkshire)		STOR.	Rats may live in spaces

Soft engineering

Strategy	Description	Advantage	Disadvantage
	Managed Retreat: To let an area that was not previously exposed to flooding by the seas to become flooded by removing coastal protection.	 It is cheaper than other strategies Creates new wetlands Helps create better habitats for animals 	 Less attractive in some case Could reduce human activity around the are (farming) Could destroy habitats
	'Do Nothing': Not attaching any coastal managing strategies	 A similar view without so much barriers may be attractive 	 Erosion Longshore drift Properties nearby could eventually fall into the sea
	Beach Nourishment: Restoring sand or sediment along the coast that was lost through longshore drift or erosion.	 The beach will look more attractive More tourists Slows down the rate the shoreline is eroded 	 Could create greater erosion in different area Could be very expensive Habitats located in beaches could be destroyed