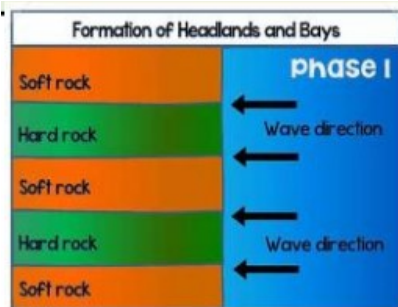
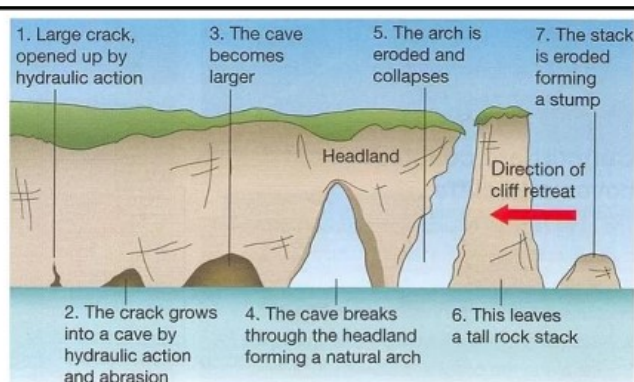
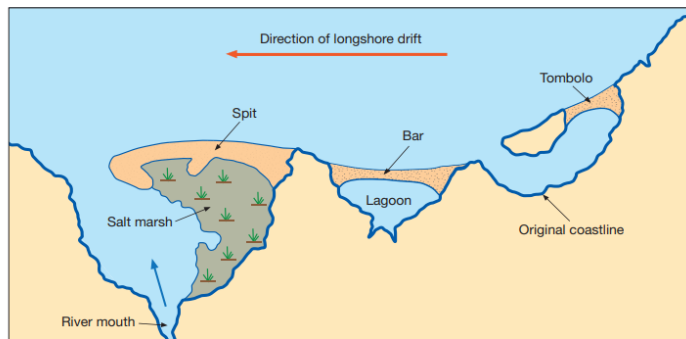


Erosional features:



Coasts

Depositional features:



Happisburgh coastal erosion:



Happisburgh:

The Norfolk village of Happisburgh, pronounced 'Hazeburrer', is being swallowed by the sea. The coastline is being eroded at a rate of 12 metres a year. Houses that used to be more than 20 feet from the sea now sit at the edge of a cliff, and will eventually fall into the sea. In 1959, sea defences were built to stop the tide from eating away at the coast. Because of changes in government policy, however, management of coastal erosion there has ceased. While many residents feel more ought to be done to protect the coastline, their houses and livelihoods, there is an opposite view that this is not cost effective and that managed retreat is the most viable option.

Key Vocabulary

Abrasion	When waves pick up loose rock and throw it against the cliff face causing parts to break off.
Bar	When a spit develops in a bay, it may join another headland , forming a bar.
Bay	A curved indent to the coastline, which is often sheltered.
Beach	A low lying area where the land meets the sea, made up of fine, loose sediment.
Cliff	A tall, vertical rock face, where the land meets the sea.
Coast	The land beside the sea.
Deposition	Where waves set down material e.g. sand that they have been carrying.
Erosion	Waves and wind wear away the coastline.
Hard engineering	Methods of coastal protection that rely on the construction of barriers.
Headland	An area of resistant (hard) rock that sticks out into the sea.
Hydraulic action	Waves force air into cracks in the cliff face, putting extra pressure on the rock, causing it to break off.
Longshore Drift	The movement of beach material along the coast , occurring in the direction of the prevailing wind.
Sea defence	Protecting the coast from the effects of erosion ; can be either hard or soft engineering .
Soft engineering	Methods of coastal protection that work with nature, rather than against it.
Spit	A long narrow stretch of pebbles and sand attached to the mainland at one end.
Transportation	Movement of eroded materials like mud, sand or shingle.
Wave	A raised ridge of water which moves across the surface of the sea.

Soft engineering:



Beach nourishment



Beach re-profiling



Marram grass

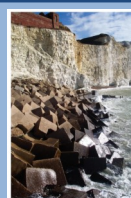
Hard engineering:



Revetments



Groynes



Rock armour



Sea walls



Gabions