

Unit title: The coastal zone

- The term **coastal zone** is used to refer to a region where interactions of sea and land processes occur.

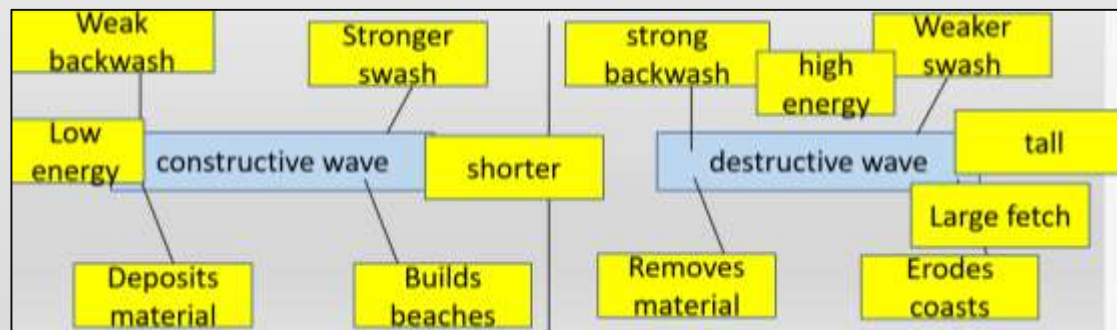
How are coastal zones important / used by people
 Tourism, energy development, fishing, transport, residential, military.
 You can practise explaining these reasons.

What challenges exist in coastal zones? Coastal retreat, coastal flooding, pollution, overfishing

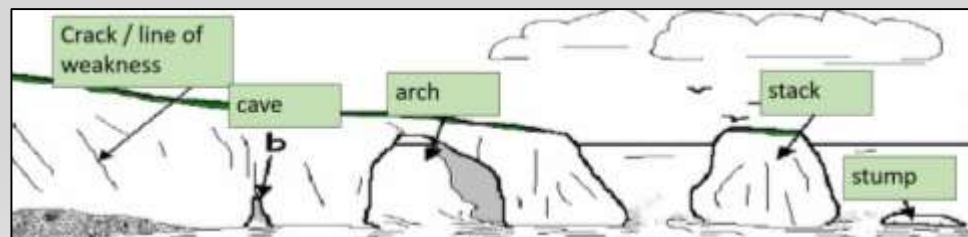


We learnt about two types of coast; high energy and low energy

There are two types of wave:



These is how erosional features form. **Erosion** is the break down of rocks. Here, the arch can fall due to erosion and gravity. Types of erosion are **hydraulic action** and **abrasion**.



Key words to know; erosion, transportation (movement of material), deposition (the dropping of material)

Skills used; ordnance survey maps. Can you give the grid reference of the stars?



Coasts are receding in some areas due to;
 Being made of soft rock, rising sea level due to climate change, increased storms

Coastal flooding also happens due to;
 Land being low lying, rising sea level due to climate change, increased storms

Coasts can be protected by; sea walls, groyne, rock armour. All shown in the photos above.

KEY WORDS: constructive wave, destructive wave, swash, backwash, erosion (hydraulic action, abrasion), weathering (freeze thaw), transportation (longshore drift), deposition, coastal landforms (headland, bay, spit), sediment / material, stakeholder, coastal recession, hard and soft engineering, coastal zone, settlement, tourism, energy, military, borders, overfishing, coastal retreat, fetch, feature, physical, human, management, intrusion, flood, fieldsketch

This is a **spit**. It is formed by the transport and deposition of sediment. The type of transportation is called **longshore drift**.



Practice questions:

- What is the difference between a high energy and low energy coast?
- Can you explain how a stack forms?
- What does erosion mean?
- Why are some coasts retreating / receding?
- What can be done to protect coasts from recession and coastal flooding?