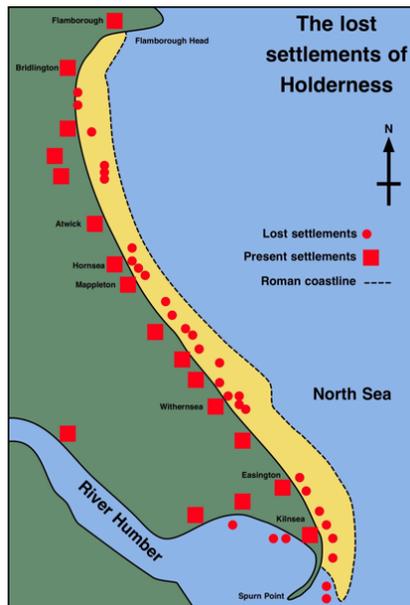


# Year 4 Geography Knowledge Organiser - Coastal processes and landforms

## Coastal Processes

- The shape of the coastline is constantly changing
- The coastline is shaped by the sea, the air and the land
- The United Kingdom has many different coastlines:
  - Beaches
  - Sand dunes
  - Salt marshes
  - Harbours
  - Cliffs
- Waves are important in how coastlines are made
- Through erosion, chalk rock dissolves into the sea or cliffs collapse

## The lost settlements of Holderness



- Holderness loses 8mm of land every day because of erosion.
- In the last 1000 years, 29 villages have been lost.
- The cliffs are made up of clay and chalk

## Coastal landforms

- A landform is the shape of something on the earth
- Coastal landforms can be very different
- Landforms can be created by erosion
- Landforms can be created by deposition
- A beach is a coastal landform created by deposition
- Beaches might be sand or shingle (small flat stones)



## Vocabulary

1. Coastline	A narrow stretch between the sea and the land
2. Waves	Water that is moving
3. Erosion	Rock being worn away by waves
4. Transportation	The sea <b>transports</b> (moves) material that has been eroded around the coast
5. Groynes	A low wall that is built out into the sea from the land
6. Deposition	The sea <b>deposits</b> (drops) what it has been transporting as it loses energy
7. Landform	The shape of something on the earth
8. Bay	Created by erosion
9. Cliffs	Created by erosion
10. Headland	Formed when a cliff is eroded inwards and part of the cliff begins to jut (stick) out.
11. Jurassic Coast	A period many millions of years ago when there were no humans on the earth
12. Preserved	The shape of animals and plants that have been left in rocks
13. Fossils	Evidence of preserved animals and plants
14. Cave	A hole in rock caused by erosion
15. Arch	Erosion that breaks through rocks and leaves a gap
16. Stack	A rock standing by itself in the sea
17. Habitat	Where plants and animals live

## Coastal habitats: the Indian Ocean

- Indian Ocean provides warm coastal water
- Indian Ocean is found in Africa and Asia
- The dugong is a sea creature that lives in shallow waters near the coast
- The Spice Islands have sandy beaches and coral reefs which are habitats for plants and animals



## The Jurassic coast

- During the Jurassic period there were rocks, plants and animals on earth
- The Jurassic Coast stretches from Exmouth in Devon to Studland in Dorset
- Charmouth Beach full of fossil evidence
- Old Harry's Rocks started out as a headland. Erosion made a cave then an arch and finally a stack



## Coast of West Wales

- Cardigan Bay is the largest bay in the UK
- Broadhaven beach has been made by erosion
- West Wales has strong winds that batter the coast
- There are many stacks, caves and arches



**Did you know.... The coast of the United Kingdom has changed so much since the Romans were in Britain that some places have completely disappeared off the map.**