

## Wave Formation and Type

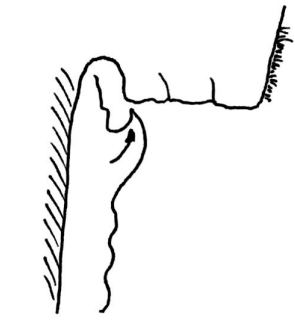


Factors affecting wave strength:-

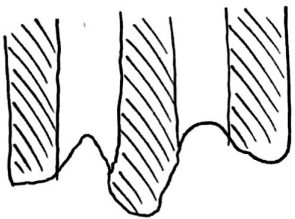
- Wind Speed
- Duration
- Fetch.

## COASTAL EROSION FEATURES

① Cliffs and Wave-cut platforms.



② Headland & Bay



DESTRUCTIVE WAVES



Characteristics?

Erode the beach

CONSTRUCTIVE WAVES



Build up the beach.

## COASTAL PROCESSES AND LANDFORMS.

### DEPOSITION

UNDER WHAT CIRCUMSTANCES WILL MATERIAL BE DEPOSITED?



## WEATHERING & EROSION

① Weathering is:-

(a) CHEMICAL WEATHERING

(b) PHYSICAL WEATHERING.

② Coastal Erosion is:-

(a) ABRASION

(b) ATTACHMENT

(c) HYDRAULIC ACTION/POWER

(d) CORROSION.

### MASS MOVEMENT.

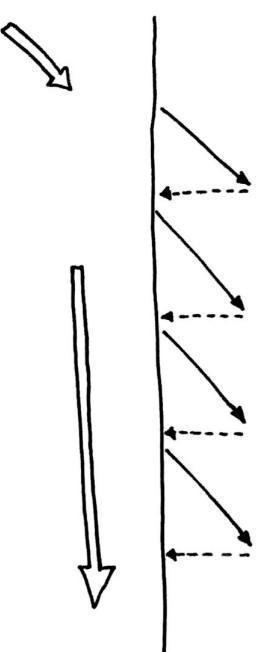
→ SLIDING

→ ROCKFALLS

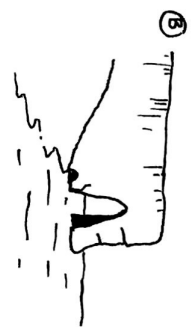
→ SLUMPING.

### LONGSHORE DRIFT

→ transport of material along the coastline

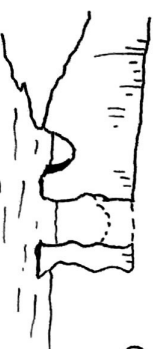


③ Erosion of a Headland.



③

③



# COASTAL DEPOSITION FEATURES

## ① BEACHES

Sources of Beach material

Comparing Beach Type

SAND 'v' SINGLE / PEBBLE

## ② SAND DUNES

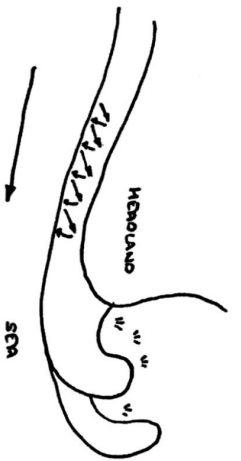
Sequence of formation...



③

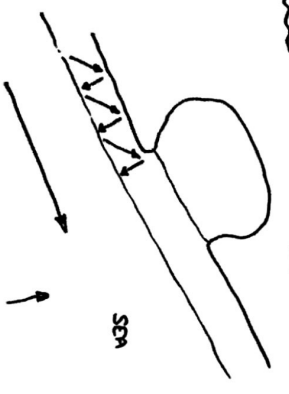
## ③ SPIT FORMATION

How do spits form:-



## ④ BAR

How do bars form?



# COASTAL MANAGEMENT

## ③ MANAGED RETREAT

Where is it?

## ① HARD ENGINEERING

Definition:-

NAMED EXAMPLE -

① SEA WALL

② GROynes

③ RIP RAP

④ GABIONS

Advantages?

Disadvantages?

## ② SOFT ENGINEERING

Definition:-

① BEACH REPLENISHMENT

② BEACH REPROFILING

③ SAND DUNE REGENERATION

## CASE STUDY → COASTAL MANAGEMENT SCHEME

## LYME REGIS.

→ where is it?

→ why is erosion a problem here?

What Coastal management schemes have been used here?

## DORSET COASTLINE EXAMPLE

Where is it?

- Difference in Geology between South & East coast?

NAMED EXAMPLES ON DORSET COAST:

Headland -

Bay -

Cuffs -

Bar -

Shoal -

Evaluating coastal management at LYME REGIS.

Successes??

Problems?