

**Weathering is...**  
The process of rocks being broken down or worn away by something.  
There are 3 types of weathering:

**Physical weathering**  
Rocks being broken down by the environment, such as pressure, temperature, water or ice.



PHYSICAL WEATHERING

**Chemical weathering**  
The breaking down of rocks by chemical reactions, for example acid rain.



**Biological weathering**  
Rocks being broken apart by plants and animals.

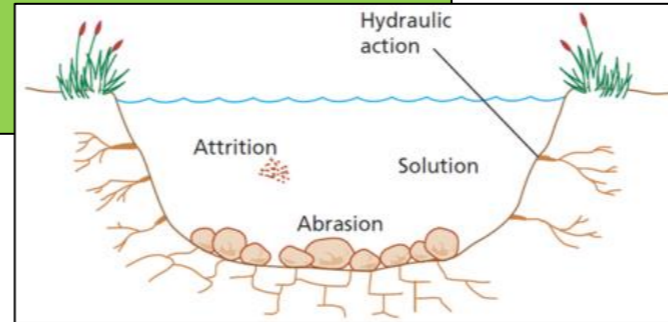


# CURIOUS COASTS

**Erosion is...**  
The gradual wearing away of rocks by wind, water or other natural agents.

There are 4 types of erosion:

- Hydraulic action
- Abrasion
- Attrition
- Solution



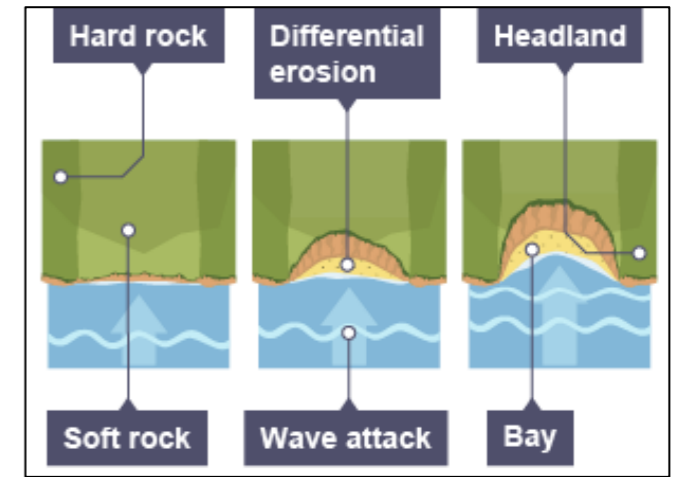
## BAYS AND HEADLANDS

Headlands and bays are coastal landforms caused by **EROSION**.

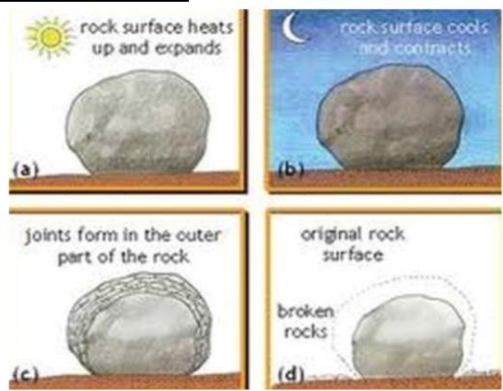
Coastlines are made up of **HARD** rock and **SOFT** rock, which alternate.

The **SOFT** rock erodes first as **HYDRAULIC** action hits the coastline. The hard rock does not erode as quickly.

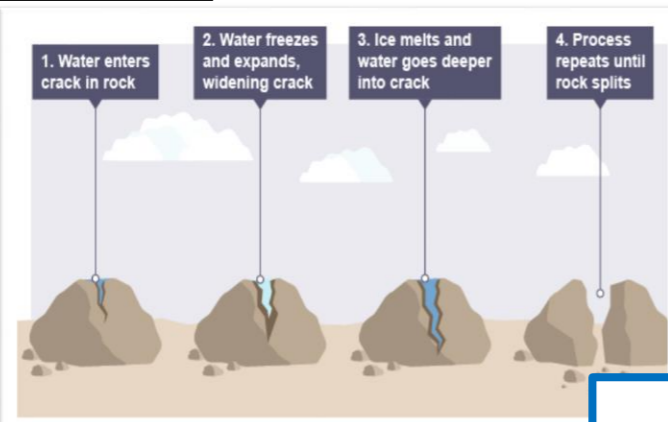
Over time, this creates **BAYS** in the soft rock, and **HEADLANDS** made of harder rock.



## ONION SKIN



## FREEZE THAW



## Transportation

This is the movement of sediment that is in the water because of erosion. Sediment is carried along the coastline. The movement of material is known as **longshore drift**.



## Deposition

When the sea loses energy, it drops the material it has been carrying.

Factors leading to deposition include:

- waves starting to slow down and lose energy
- shallow water
- sheltered areas, e.g. bays
- little or no wind

## CHEMICAL WEATHERING

### Seawater and rainwater



Seawater and rainwater are slightly acidic.

This causes the rocks on the coast to be broken down by a chemical reaction with the acid.

### Acid rain



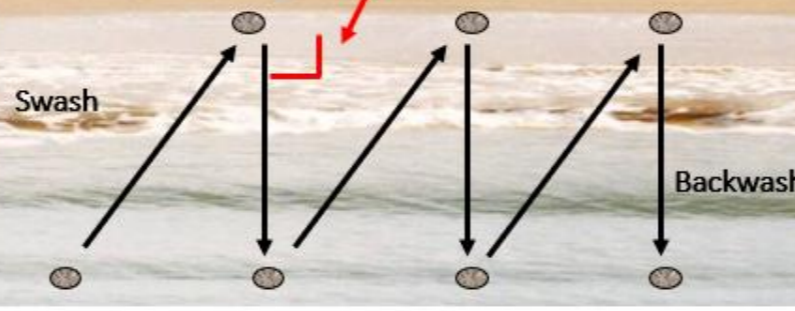
Because of the amount of pollution we create, the rain that falls is now acidic.



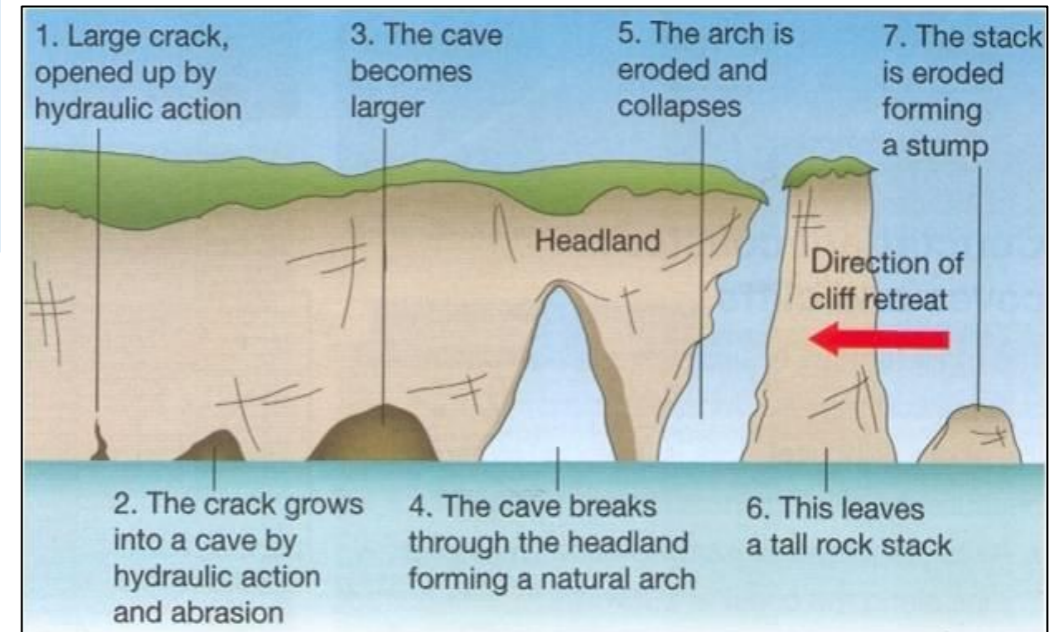
This reacts with rocks, and things made out of rock, causing them to be broken down.

## Direction of movement

Backwash is always at right angles to the beach



## COASTAL LANDFORMS



## Australia's Great Ocean Road

Landforms include:

- The 12 Apostles
- Portland
- Island Archway
- Nelsons Bay
- Barwon Heads
- Port Fairy

