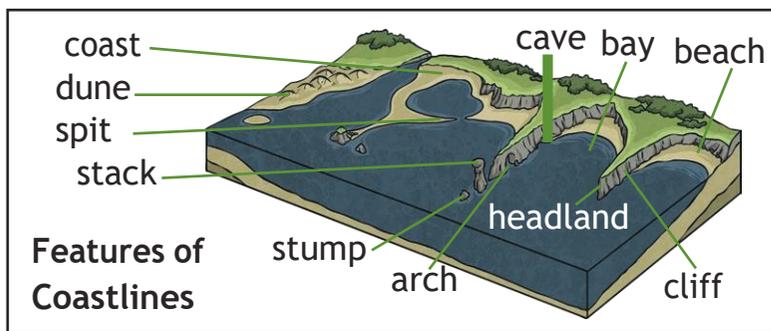


**Key Vocabulary**

<b>acidic</b>	A chemical substance, usually a liquid, which reacts with other substances to form salts. Some <b>acids</b> burn or <b>dissolve</b> other substances that they come into contact with.
<b>border/ boundary</b>	The outer part or edge of a region or country that divides it from another.
<b>deposition</b>	When material/sediment is moved and dropped off in a different place.
<b>dissolve</b>	When a solid substance mixes with a liquid to make a solution.
<b>erosion</b>	When natural materials are worn away and transported to a different place.
<b>weathering</b>	The process of wearing away rocks by the weather.



**Weathering and Erosion**

**Weathering** is the process of wearing away rocks by the weather.

There are three different types of **weathering**:

- physical **weathering**
- chemical **weathering**
- biological **weathering**

**Erosion** is where natural materials are worn away and transported by environmental features such as water, wind and ice.



**Erosion** - Wind blows loose particles away or into other rocks causing the rock to be worn away.

**Physical Weathering**

Water gets into cracks in the rock, it can then freeze causing the water to expand creating cracks in the rock.



**Chemical Weathering**

Slightly **acidic** rainwater can cause a chemical reaction and over time this can **dissolve** some of the rock.



**Biological Weathering**

Caused by animals and plants. Roots can grow under rocks and cause damage, animals can wear away paths, dig holes etc.

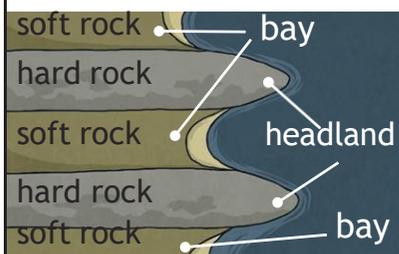


You can look at these websites to do further research: <https://www.dkfindout.com/uk/earth/rock-cycle/how-does-rock-cycle-work/>  
<https://www.dkfindout.com/uk/earth/coasts/wave-power/> <https://www.dkfindout.com/uk/earth/coasts/cliffs-caves-arches-and-stacks/>  
 We will also be using these pages in our lessons.

### Features of Coastlines

#### Bays and Headlands

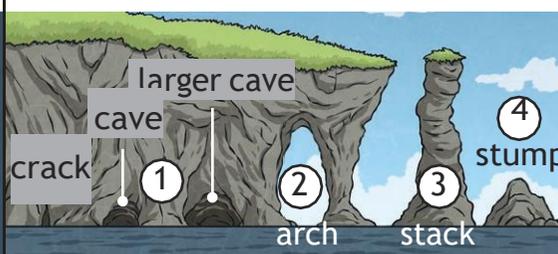
Where there is harder and softer rock, the softer rock will **erode** more quickly and can form bays. The harder rock **erodes** more slowly and can form headlands surrounding bays.



#### Arches, Stacks and Stumps

Softer or weak sections of the rock are **eroded** more easily.

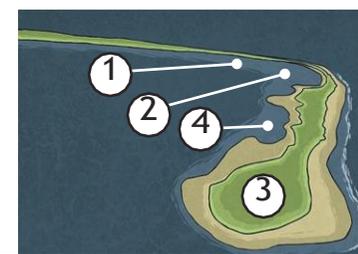
1. Over time, waves cause cracks to open forming caves.
2. If a cave forms in a headland, it may break through causing an arch to form.
3. The top of the arch can weaken and may collapse into the sea leaving a stack.
4. Over time, the stack will **erode** leaving a small stump of rock.



#### Spits

Formed by **deposition**.

1. The tide carries **eroded** material along the coastline.
2. **Deposits** form a long, thin sandy area of land.
3. Changing winds may cause the spit to form a hook shape.
4. Mud flats develop on the inland side of the spit.



### Why Do Boundaries Change?

Many countries and **borders** across the world **have** and are **still** changing due to:

#### Human Political Activity

- Tribes claiming areas of land
- Invasion/war
- Migration of other settlers
- Royal/political union

#### Natural Activity

- Rising sea levels
- Natural processes and events e.g. changing river courses, volcanic eruptions.



These include the UK and other countries in Europe such as Germany, Poland and Czechoslovakia. These changes can have an impact on the **borders**, language, religion and culture of the country.

### Changing Landscapes

Landscapes can change over time for many different reasons:

- New houses/buildings and roads are built
  - Old buildings are demolished or updated
  - Areas of land may be cleared for farming or building
- Some landscapes are important and there are things in place to stop development such as:
- Listed buildings
  - National/country Parks
  - Green belt/conservation areas
  - Sites of Special Scientific Interest
  - World Heritage Sites



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