

Geography – Coasts - Year 4 - Term 3 and 4



A coast is a strip of land that meets a sea or ocean and that it can be made of gravel, rock, sand or mud.

Coastal erosion is mostly caused by waves and tidal currents but also from human activity and weathering.

The UK is an island so it is surrounded by water.

Coastlines are not all the same; some have rugged cliffs and others are flat.

Broadstairs (Kent)
The Jurassic Coast (Dorset and Devon)
Blackpool (Lancashire)
Giant's Causeway (Northern Ireland)

Most cities are located by water.

London is located on the Thames. Rivers provide **rich soil for farming, transportation links, water** to clean and opportunities for **activities** such as swimming, boat trips and fishing.

Countries all around the world are located by water.

Tokyo, Cape Town, Washington D.C., Lisbon, London (Thames estuary), Freetown, Lima and Wellington are all coastal cities.

The **eight points of the compass** are used to locate countries and cities on maps.

The **equator** is an imaginary line around the middle of the Earth, half way between the North and South poles.

Tropic of Cancer - an imaginary line parallel to and above the equator and it marks the Northern boundary for the tropics

Tropic of Capricorn - imaginary line parallel to and below the equator and it marks the Southern boundary for the tropics

Greenwich Meridian - this imaginary line represents the Prime Meridian of the world - longitude 0° - where every place on Earth was measured in terms of its distance east or west from this line.

Land is used in different ways - farming, forestry, industry, tourism, water storage and supply, energy

Our Earth has **natural resources** in the form of energy, food, minerals, water, found all over the world, such as:

Russia (gold, oil)
USA (copper, oil, gas),
Canada (oil and precious metals),
China (coal and metals),
Brazil (gold, iron, oil, uranium).

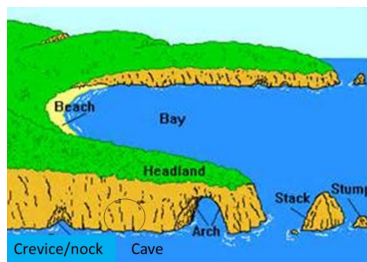
What do you already know?



What are the eight points of a compass?

What is a coast?

Why are cities located by a river?



Coastal features

Vocabulary



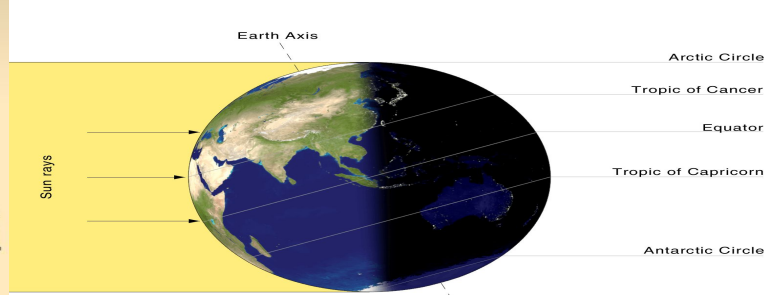
Coastal Erosion	The loss or displacement of land, or the long-term removal of sediment and rocks along the coastline due to the action of waves, currents, tides, wind-driven water,
Tropic of Cancer	The Tropic of Cancer is an imaginary latitude line located above the equator that runs across the globe at about 23 degrees north.
Tidal	Tidal means relating to or produced by tides. The tidal stream or current gradually decreases in the shallows.
Greenwich Meridian	The prime meridian is also called the Greenwich meridian because it passes through Greenwich, England. Before 1884 map makers usually began numbering the lines of longitude on their maps at whichever meridian passed through the site of their national observatory
Natural resources	A natural resource is something that is found in nature and can be used by people
Tourism	
Tropic of Capricorn	The Tropic of Capricorn, or Southern tropic, is one of the five major circles of latitude of a map of the Earth. It is 23° 26' 22" south of the Equator
Equator	An equator is an imaginary line around the middle of a planet
Environment	All the physical surroundings on Earth are called the environment.

Facts about coasts

- **Altogether in the world, there is 312,000 kilometers of coastline.**
- **Coastlines are not fixed. They are constantly moving due to erosion and by changing sea levels.**



Monet - Beach paintings



- 1 **Waves attack rock face using hydraulic action and abrasion. Crack is formed.**
- 2 **Over time, crack is enlarged to form cave.**
- 3 **Cave is widened and deepened and pushes through the headland to form a natural arch.**
- 4 **Undercutting and weathering lead arch to collapse leaving a stack.**
- 5 **Weathering and erosion wear stack down to a stump.**

