

Our School Values- Geography	
Love	Learning about, exploring and caring for the world that we live in.
Courage	Visiting new places and challenging others' viewpoints.
Unity	Working in groups to research and find answers to our own investigations.
Inspiration	Encouraging others to look after our world.



Year 4 Geography Coasts



NC:

Key topographical features including coasts to understand how they have changed over time. E.g. sand dunes at Studland.

Knowledge I already know

Mapping Knowledge:

I can use 4-figure co-ordinates to locate features.
I can use the search function on a digit map using grid references.
I can add a range of annotation labels and texts to help me explain the features.
I can highlight areas within a given radius.

Knowledge I will learn

Weather and Climate

I know that the rise in the Earth's temperature has caused more extreme storms that have led to cliff falls on the Jurassic Coast.

Human and Physical Knowledge:

I know that beaches are formed by waves eroding the shoreline and cliffs.
I know that cliffs are formed by erosion and weathering on rocks by the edge of the sea and land.
I know that arches, stacks and stumps form when a cliff erodes away.
I know that different rock types erode at different rates.
I know that we can learn about history by looking at rocks.
I know that defences such as groins and sea walls, help stop longshore drift where sand is washed away from an area.
I know that sea defences can have an impact on natural processes.

Fieldwork Knowledge:

I can gather, record and classify information in a variety of ways to help in answering refined questions.
I can present findings in a short, written report.

Mapping Knowledge:

I know that a topography is the shape and arrangement of physical features on a surface.
I can use 6 figure grid references to help accurately locate a place.
I recognise that contours show height and slope.
I can explain what places are like using maps at a local scale.
I can use oblique and aerial views.
I can use standard symbols in a key. I can use some OS style symbols.



Key Vocabulary

Word	Definition
Contour lines	Contours are lines drawn on maps that join places of the same height. They can be used to see the shape of the land.
Relief	Detailed maps that show the variation in a slope, aspect and elevation.
Oblique view	An aerial image of a surface made from an angle.
Tides	The rising and falling of the sea, usually twice in a day. This is influenced by forces exerted by the moon and sun.
Deposit	When the sea loses energy, it drops the material (deposits) it has been carrying. This is known as deposition.
Weathering	A natural process that slowly breaks apart or changes rocks. Heat, water, wind, living things and other natural forces cause weathering.
Erosion	When pieces of the Earth's surface are moved from one place to another.
Coastal land-forms	As cracks in rocks erode, caves occur. It may eventually break through to the other side causing an arch. When the arch gets bigger, it will no longer support itself and will then collapse. This leaves a stack. When this collapses it's called a stump.
Sediment	Material that is moved and deposited in a new location.
Longshore drift	Prevailing wind, swash, backwash
Coastal management	Coastal management reduces the risk of flooding by slowing erosion, reducing wave energy and creating defences to hold back waves.
Natural processes	Physical processes that create change on Earth.

Mapping	Human and Physical	Human and Physical. Weather and Climate.	Human and Physical	Human and Physical	Fieldwork
L1: I can explain how contours show height and slope	L1: I know how beaches and cliffs are formed	L1: I know how coastal features are formed.	L1: I know advantages and disadvantages of types of sea defence	L1: I know how a local area has changed over time.	L1: I can investigate a question
Topography and OS map work	Draw a diagram labelling parts of the coastline.	Create a flow chart with diagrams and labels to show how erosion occurs.	List the advantages and disadvantages to different sea defences.	Write a persuasive piece for or against protecting the coastline.	Fieldwork trip to the Lulworth Cove. Write up in a report.
Challenge: Why do we need access to different types of map?	Challenge: How does living by the coast benefit and disadvantage people that live there?	Challenge: What would Old Harry Rocks have looked like in the past?	Challenge: Why might someone now want sea defences in their local area?	Challenge: Include counter arguments and different groups of people.	Challenge: How could you use your results to plan for the future of the area?