

Year 10 Summer Term

AdAstra

Physical Landscapes of the UK (Rivers and Coasts)

How does this unit link to prior learning?			
Year 7	Year 8	Year 9	Year 19
Map skills	Crazy Coasts and Raging Rivers	Russia (Sea Level Rise)	Natural Hazards (Processes)

What will you be learning about?

In this unit you will discover how coastal processes happen and what landforms these processes help to create. You will explore the challenges of living in the coastal environment and compare the different management strategies we use to protect the coastline at Lyme Regis. You will then discover the processes and landforms we can find along a river's course. You will understand how specific processes shape a drainage basin. Finally you will compare the causes, effects and responses to flood events in Banbury.

Key Focus

Within this unit there is a focus on understanding how physical processes cause landforms to form and change over time. You will look at a number of cases studies to explore these processes. You will also explore the interactions between people and places in coastal and river environments. Each lesson will start with knowledge retrieval, which will cover the knowledge, understanding and skills you have developed in previous lessons.

We will develop our learning by studying the following sequence of lessons:				
1. Waves	8. Drainage Basins			
You will be able to identify how waves are formed, describe how waves are	You will need to define and describe the features of a drainage basin.			
formed and you will be able to explain the two different types of wave.	9. Long River Profile – River Tees Exam ple.			
2. Coastal Processes – erosion, transportation and deposition	You will explore an example of a river and how it changes downstream,.			
You will be able to define the term 'erosion'. You will describe the 4 different types of erosion and explain how waves erode the coastline.	10. Erosion and Waterfalls			
3. Erosional Landforms	You will be able to link different types of erosion to the formation of a waterfall.			
You will be able to define the terms bay and headland. You will be able to explain how erosion creates landforms at the coast.	11. Meanders and Oxbow Lakes			
4. Depositional Landforms	You will be able to identify what a meander is and explain how they are formed. You will explain how a meander changes over time to become an oxbow lake.			
You will be able to describe the process of longshore drift and explain how				
the landforms created by deposition are formed.	12. Hydrographs and Flooding			
5. Coastal Management	You will develop your graph skills by looking at a hydrograph for a rural and urban area. You will then look in to how we are trying to manage flooding along a river.			
You will understand the difference between hard and soft engineering and identify the positive and negative features of coastal management				
techniques.	13. River Tees Flood Management			
6. Lyme Regis Coastal Management Case Study	The final section of this module is looking in to how and why Banbury flooded, the impacts and the management that was put in place.			
You will locate the Jurassic Coast and Lyme Regis and identify the hazards and management solutions along the Jurassic Coast				
7 Interim Accomment	14. End of Topic Assessment			
	You will be assessed on everything you have learnt through this module			
any gaps on misunderstandings.				
How will this unit help you in the future?				
Year 10	Live Beyond Lode Heath			
Understanding the risks people living in certain physical environments face will help with future topics such as Changing Economic World which explores development and the economy. Understanding of water will help with Challenges of Resource Management.	This unit provides the foundation for further study of physical processes at A-Level and degree level. Knowledge of Rivers and Coasts will help you understand your physical environment in the future.			
Key Vocabulary				
Hydraulic Action Abrasion Attrition Solution Traction	Saltation Suspension Weathering Backwash Swash			
Longshore Drift Hard Engineering Soft Engineering D	rainage Basin Waterfall Deposition Erosion Relief			