



Summer Term Learning Journey for Geography

Yr 10 UK Physical Landscapes



How does this unit link to prior learning?

Year 7 What is Geography (Map skills and locational knowledge) Year 8 Rivers and Coasts Year 9 Russia (Sea level rise)

What will you be learning about?

Within this unit there is a focus on understanding how physical processes cause landforms in both coastal areas and rivers 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.

We will develop our learning each week by focusing on:

1.UK Landscapes Understanding the UK has a range of diverse landscapes. An overview of the location of major upland/lowland areas and river systems.	RAG	11.Long profile and changing cross profile of a river You will explore the idea that the shape of river valleys changes as rivers flow downstream.	RAG
2.Wave types and characteristics Formation of waves, and the characteristics of constructive and destructive waves.		12.Fluvial processes You will learn types of erosion (hydraulic action, abrasion, attrition, solution, vertical and lateral erosion), transportation (traction, saltation, suspension and solution), and why rivers deposit sediment	
3.Coastal processes Weathering processes (mechanical and chemical), mass movement (sliding, slumping and rock falls), erosion (hydraulic power, attrition and abrasion), transportation (longshore drift) and why deposition occurs in coastal areas.		13.Landforms resulting from erosion (upper course) Formation of interlocking spurs, waterfalls and gorges.	
4.Landforms resulting from erosion How geological structure and rock type influence coastal forms. Formation of headlands and bays, cliffs and wave cut platforms, caves, arches and stacks.		14.Landforms resulting from erosion and deposition (middle course) Formation of meanders and ox-bow lakes.	
5.Landforms resulting from deposition – awe and wonder How geological structure and rock type influence coastal forms. Formation of beaches, sand dunes, spits and bars.		15.Landforms resulting from deposition (lower course) Formation of levées, flood plains and estuaries.	
6.An example of a section of coastline in the UK: case study Jurassic Coast. To identify its major landforms of erosion and deposition.		16.An example of a river valley in the UK: case study River Tees. To identify its major landforms of erosion and deposition.	
7.Hard engineering strategies used to protect coastlines Cost and benefits of sea walls, rock armour, gabions and groynes		17.How physical and human factors affect flood risk Explore how precipitation, geology, relief and land use affect the flood risk.	
8.Soft engineering strategies used to protect coastlines Cost and benefits of beach nourishment, reprofiling, dune regeneration and managed retreat.		18.Hydrographs Using hydrographs to show the relationship between precipitation and discharge.	
9.An example of a coastal management scheme: case study Lyme Regis. To explore the reasons for management, strategies used, and the resulting effects and conflicts.		19.Hard engineering management strategies Cost and benefit of dams and reservoirs, straightening, embankments, flood relief channels.	
10.Interim Assessment		20.Soft engineering management strategies Cost and benefit of flood warnings and preparation, flood plain zoning, planting trees and river restoration.	

21. An example of a flood management scheme in the UK: case study River Tees. To explore why the scheme was required, strategy used, and the social, economic and environmental issues.

Key vocabulary

Erosion	Transportation	Deposition	Weathering	Longshore drift	Relief	Drainage basin	waterfall	Hydraulic action
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How will this help you in the future?

KS4	Beyond LHS
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	This unit provides the foundation for further study of physical processes at A-Level and degree level. Knowledge will help you understand physical environments in the future.



(Autumn) Learning Journey for (subject here)

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How does this unit link to prior learning?

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What will you be learning about?

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We will develop our learning each week by focusing on:

	Skills	RAG
<u>1.</u> (Key learning topic here)		
<u>2.</u> (Key learning topic here)		
<u>3.</u> (Key learning topic here)		
<u>4.</u> (Key learning topic here)		
<u>5.</u> (Key learning topic here)		

6. (Key learning topic here)									
Key vocabulary									

How will this help you in the future?	
KS4	Beyond LHS