

High Tunstall College of Science Curriculum Intent

Subject: Geography Year: 10 Half term: 4

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| **Unit: Living with the Physical Environment – Physical Landscapes in the UK: Coasts** | **Progress** | | |
| **Key ideas** | **R** | **A** | **G** |
| The UK has a range of diverse landscapes (CGP p39) |  |  |  |
| The coast is shaped by a number of physical processes (CGP p40-41) |  |  |  |
| Distinctive coastal landforms are the result of rock type, structure and physical processes (CGP p42-45) |  |  |  |
| Different management strategies can be used to protect coastlines from the effects of physical processes (CGP p46-47) |  |  |  |

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| **Lesson** | **Learning Focus** | **Assessment** | **Key Words** |
| **1** | Location of major upland areas, lowland areas and river systems in the UK | * Visual overview with annotation. * Plenary Dave ‘The UK has a range of diverse landscapes.’ Discuss. | Landscape |
| **2** | Wave types and characteristics | Exam question: ‘Compare the features of a destructive wave with those of a constructive wave’ | Waves |
| **3** | Coastal Processes  Weathering; mechanical and chemical | Annotated diagram to show process of freeze-thaw weathering. | Chemical weathering, Erosion, Mechanical weathering |
| **4** | Coastal Processes  Mass movement; sliding, slumping and rock falls | Sketch of a photograph of with labels to identify the type of mass movement | Mass movement, Sliding, Slumping, |
| **5** | Coastal Processes Erosion; abrasion, hydraulic power, solution, attrition (ASHA) | * Exam question to explain and/or compare types of erosion. * CGP Exam Q ILO from Climate Change. | Abrasion, Attrition, Hydraulic power. |
| **6** | Transportation; Longshore drift  Deposition | * Draw and annotate a diagram to show the process of longshore drift. * Exam question to explain the process of deposition. | Deposition, Longshore drift, Transportation, |
| **7** | How geological structure and rock type influence coastal landforms:  Characteristics and formation of landforms resulting from erosion; headlands and bays | * Annotated photo to identify and explain the formation of headlands and bays. * Triple Challenge | Headlands and bays |
| **8** | Characteristics and formation of landforms resulting from erosion; cliffs and wave-cut platforms. | Draw a labelled diagram to explain the formation of wave-cut platforms. | Cliff, Wave cut platform. |
| **9** | Characteristics and formation of landforms resulting from erosion; caves, arches and stacks | * Durdle Door scripts and presentations. * Sketch of a photograph of with labels and annotations to identify features and explain the formation. | Arch, Cave, Stack, |
| **10** | Characteristics and formation of landforms resulting from deposition; beaches and sand dunes. | * Mix & Match exercise to show process of formation of sand dunes. * Annotated sketch of features and adaptations of marram grass. * CGP Exam Q ILO from Climate Change. | Beach, Sand dune |
| **11** | Characteristics and formation of landforms resulting from deposition; spits and bars | Annotated photo to identify and explain the formation of Spurn Point. | Bar, Spit |
| **12** | **Case Study: The Dorset Coast, Southern England** | * Annotated OS maps extracts and sketch maps to identify coastal features. * Dorset coast fact file. | See above. |
| **13** | The costs and benefits of:  Hard engineering; sea walls, rock armour, gabions, groynes | Exam question: Compare the coastal defence schemes at Minehead with those at Porlock. | Gabion, Groyne, Hard engineering, Rock armour, Sea wall, |
| **14** | Soft engineering; beach nourishment and reprofiling, dune regeneration  Managed retreat | Plenary Dave: ‘The only way to defend the coast is to invest in hard engineering strategies like sea walls’. Discuss. | Beach nourishment, Beach reprofiling, Dune regeneration, Managed retreat, Soft engineering |
| **15** | **Case Study: Holderness, East Yorkshire:** reasons for management**,** the management strategy **and** the resulting effects and conflicts | * Annotated map to show management strategies along East Yorkshire coastline. * 15 mark Coastal Landscapes exam question from SAM2. * CGP Exam Q ILO from Climate Change. | See above. |