# Ravens Wood School

## KS3 Curriculum Plan

**Subject: Geography**

| **Overarching Topic: Coasts** | | | |
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| Why is this topic being studied at this time?<br><br>How does it fit into the wider subject curriculum? | As an island nation, it is important for students to study the coastline of the UK and the unique features and characteristics that it creates. It is also a cornerstone topic of GCSE physical geography and it is important for students have an understand of both the physical processes shaping the landscape but also how human activity interacts with these processes creating key features/issues.<br><br>A number of the physical erosional and transport processes are covered and this topic also links to weather and climate and ecosystems topics. This topic also enables students to further understand physical changes along the coast and how these impact on and are impacted by human activities. The understanding of economic, social and environmental impacts is a key skill revisited in a number of other physical geography topics at KS4. | | |
| | **Essential** | **Core** | **Ambitious** |
| **The Big Questions** (What questions will students be able to answer upon mastery of the topic?) | • Why are coasts important?<br>• What are the different types of waves found at the coast?<br>• How does the sea shape the coastline?<br>• What are some of the key features created by erosion and deposition?<br>• How can our coastlines be protected? | • What are the different types of erosion and transportation found at the coast?<br>• How are different types of waves creating different shorelines?<br>• How do some of the erosional and depositional processes create distinctive landforms?<br>• What is longshore drift and how are unique landforms created by this process?<br>• What are the most significant impacts of coastal erosion and how can these be effectively reduced in different locations?<br>• How do physical processes interact to create key coastal features? | • Why are different management techniques more/less appropriate along some stretches of coastline?<br><br>• What environmental damage is being caused to our coastline by human activity?<br><br>• If emissions continue to rise rapidly, the IPCC have predicted sea levels will increase by an average of 62cms. What impact will this have on the developed and developing world?<br><br>• How can GIS be used to further understand impacts along the coastline? |
| **The Key Skills/** | **The sophistication and application of skills will become more advanced as students' progress through the essential, core and ambitious knowledge** | | |

| Techniques | Skill/Technique | How will this skill be developed? |
|---|---|---|
| | 1. Map skills | Interpretation of geology maps and OS maps to identify different coastlines and key landscapes. These maps can also be used when determining reasons for using specific coastal defences and where coastlines should be further protected. |
| | 2. Research | Use of secondary research techniques (historic photos, maps and geology maps) to understand why and how an area of coastline has changed |
| | 3. Evaluation | Using a cost-benefit analysis, what areas of a coastline should be protected? The students are to explain their choice of sea defence and why the piece of coastline has been protected. Different scenarios are created including changing land-use and amount of money to be spent |