**Paper 1 - Physical Revision List – Year 11**

**Q1. The challenge of Natural Hazards**

* Definition of extreme weather
* Impacts of extreme weather in the UK – Social, economic and environmental impacts and examples
* Location and formation of tropical storms (hurricanes).
* Impacts of tropical storms and link to the level of development
* How climate change and increase of sea temperatures affects the distribution and frequency of tropical storms.
* Causes of climate change – Human and physical
* Methods to reduce climate change
* **Case study: Tectonic hazards – New Zealand and Haiti Earthquakes – Effects (Primary and Secondary) and Responses (Immediate and long term).**

**Q2. Living World**

* Describe how one part of the ecosystem can have an impact on other parts of the ecosystem.
* The role and the importance of different parts of the ecosystem (Producers, Consumers, Decomposers).
* How energy is lost at each level of the ecosystem – loss of biomass.
* Climate of each type of biome – how does it affect vegetation/biodiversity.
* Layers of the rainforest.
* Describe the characteristics of the vegetation/plants in the tropical rainforest.
* Explain how tropical rainforest vegetation and animals adapts to the climate and soils.
* Causes of deforestation. Causes of different levels of deforestation. Positive and negative effects of deforestation.
* Animal adaptations and Plant adaptations – Hot desert and Tropical rainforest.
* **Case Study: Study a hot desert, Impacts of human activities (positive and negative). Assess the management strategies of the desert environment.**
* What is desertification?
* **What are the causes of desertification? Impacts to the desert.**
* How is the risk of desertification reduced?

**Q3. Coastal landscapes in the UK**

* Grid reference method. Identification of coastal landforms/features on a map/photograph.
* Processes of erosion, transportation and deposition.
* Identifying coastal landforms on maps/photographs/diagrams.
* Differences between constructive and destructive waves
* Processes of Mass movement – slumping, rock falls and landslides.
* Processes of erosion, transportation and deposition
* Landforms created by erosion, transportation and deposition (Cliffs, wave-cut platforms, headlands and bays, caves, arches, stacks, stumps, beaches, spits, bars, sand dunes.
* Describe, explain and evaluate the effectiveness of different types of coastal defences against coastal erosion (hard engineering and soft engineering techniques. Why are they needed?
* **Case study: The Holderness Coastline – causes and effects of coastal retreat, conflicts of coastal sea defences. Evaluate the effectiveness of the different types of protection techniques.**

**Q4. River landscapes in the UK**

* Grid reference method. Identification of river landforms/features on a map/photograph.
* Know the processes in a river: Erosion, transportation and deposition processes down the course of the river.
* Identifying river landforms on maps/photographs/diagrams.
* Differences in upper course, middle course, lower course of a river (changes in **cross profile of a river).**
* Changes in long profile of a river
* Formation of waterfalls, gorges, meanders, ox-bow lakes, levees, floodplains, deltas,
* Definition of flooding (What is flooding).
* Causes of flooding (human and physical factors).
* Hard and soft engineering strategies to manage/reduce the impact from flooding. Evaluate the effectiveness of them.
* **Case Study: Flood management in Boscastle – Why it was needed, evaluate the effectiveness in reducing the flooding**