



Sets (s): All Y10 classes.

YEAR 10

LP4

SUBJECT Geography

Knowledge Focus:

Landscapes and Physical Processes: **Coasts and Tectonic Processes.**

**This half term : Skills, Knowledge and understanding to be developed:**

- How do processes work together to create landform features at different scales in coastal landscapes in Wales?
- What factors affect the rates of landform change in coastal landscapes in the UK?
- How do tectonic processes work together to create landform features at different scales?
- What are the impacts of tectonic processes?

**Key Terms to be learned this half term:**

Coasts: Transportation: backwash, swash, longshore drift, constructive / destructive wave, deposition, headlands, bays, concordant / discordant coastline, cliffs, beaches, dune, spit, arch, cave, stack, stump, tombolo, wave-cut platform.

Tectonics: Convection, subduction, divergence. Constructive / destructive margin volcanoes, ocean ridges, ocean trenches, rift valley, island arcs, fold mountains. Lava flows, pyroclastic flows, ash fall.

Week 1 and 2 Learning Objectives etc:

- describe and explain the development of cliffs, wave-cut platforms, arches, stacks, headlands / bays, beaches, and spits and their associated smaller scale features: rock pools, wave-cut notches etc.
- outline how factors affect rates of landform change and how geology affects the local landforms; *concordant & discordant*.



Objective assessments:

How do processes work together to create landform features at different scales in coastal landscapes?  
What factors affect rates of landform change in coastal landscapes in the UK?

Homework:

Find a photograph of coastal erosion following an extreme weather event. Annotate the photograph to show the main features e.g. slumping, scree slopes

Week 3 and 4 Learning Objectives etc:

- outline how climate e.g. seasonal variation in the impact of extreme weather events effects rates of landform change (*eg catastrophic change during a winter storm*).
- explain how human activity has intended and unintended consequences (*e.g. accelerated erosion resulting from interrupting patterns of longshore drift*).



Objective assessments:

What factors affect the rates of landform change in coastal landscapes in the UK?

SA: Unit 1 Mock exam.

Homework:

Revise key word spellings and definitions (**Literacy focus**), key themes and processes for all work completed so far for mock exam.

Week 5 and 6 Learning Objectives etc:

- understand and have an overview of the global distribution of tectonic activity and its link to plate movement and boundaries.
- describe and explain large scale processes (convection, subduction and divergence) at constructive and destructive margins and understand resulting large scale features to include rift valleys and ocean trenches.
- understand and explain the concept of volcanic hotspots (*eg Hawaii*).



Objective assessments:

How do tectonic processes work together to create landform features at different scales?

Homework:

Research Iceland. How has the Thingvellir Rift Valley formed? Where do rift valleys occur?

Week 7 Learning Objectives etc:

- describe and explain the processes which result in distinctive volcanic landscape features:
- (i) **Larger scale** features to include shield volcanoes, stratovolcanoes, caldera etc.



Objective assessments:

What are the impacts of tectonic processes?

APP: Tectonic processes Key words.

Homework:

Research the Hawaiian volcanoes – how are they formed? **Numeracy focus:** rank the Hawaiian volcanoes oldest to youngest. Include their age.

APP: Tectonic processes Key words.

