

Year 11 Unit 4 Overview – Living World

(Freshwater Pond, Tropical Rainforests and Hot Deserts)

Dates: W/C 11TH February 2019 to W/C 11TH March 2019

Target grade for tests:

You will learn about:

- The physical characteristics of different ecosystems
- How development of the tropical rainforest and hot deserts creates opportunities and challenges
- How ecosystems can be managed sustainably



You will be able to:

- Use case studies/examples to explain processes.
- Carry out research.
- Make well justified and balanced geographical decisions
- Use literacy (PEEL and PEAL).

Lesson Overview:

Easter Holiday HWK – Hot Deserts Booklet

1. ***Small Scale Ecosystems Example** – Freshwater Pond – characteristics, components and change.

HWK – large scale ecosystem overview of global biomes

2. Tropical Rainforests – characteristics of tropical rainforests

HWK – adaptations of plants and animals in the tropical rainforest and threats to biodiversity

3. Tropical Rainforests - ***case study – Malaysia**, causes and impacts of deforestation
4. Value of the tropical rainforest and sustainable management of the tropical rainforest
5. Consolidation of Hot Deserts Booklet
6. Assessment

Key Words:

Biome - a large, global scale ecosystem e.g. hot desert or tropical rainforest

Clear felling – cutting down of all trees in an area, regardless of age or type of tree

Deforestation – cutting down of trees

Desertification – the erosion of soil into desert through soil and wind erosion

Ecosystem – a unit of living and non-living things e.g. plants and animals e.g. freshwater pond

Food chain – a single line showing the transfer of energy and the dependence from producer to consumer.

Food web – a complex that shows how different species within an ecosystem depend on one another (complex for of energy from producer to consumer)

Fringe – the edge of deserts

Hot Desert – a biome that receives less than 250mm of rain per year

Irrigation – the use of water for growing crops

Selective logging – cutting down of selective trees e.g. those that are older or a certain type

Slash and burn – the cutting down and burning of trees with the aim of returning nutrients to the soil

Suggested reading or support available:

<https://www.bbc.com/education/topics/z2tqwx>

Blue Edexcel Textbook – Living World Chapter – Pages 50 – 77

Cross curricular:

- **SMSC:** develop a critical understanding of how ecosystems are independent systems and are valued by different stakeholders in different ways
- **Literacy:** using key geographical terms, PEEL to write well balanced explanations and comparisons. Accurate SPAG.
- **Numeracy:** analyse trends in data, reading and drawing pie charts, bar graphs.