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| **What will we be learning?****The Living World** | **Why this? Why now?**The focus for Year 8 is THREATS. At the end of Y7, students learnt about coastal management and how this will become a threat in the future. Another threat in the world is within our ecosystems. |
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| **What will I Learn? Lesson Question** | **Date** | **Retrieval Practice** |
| 1. What is an **ecosystem**?
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| 1. How do **food chains** and **food webs** work?
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| 1. How do people **affect** local ecosystems?
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| 1. What impact do people have on **vegetation** cover – School Based Fieldwork
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| 1. What does a **climate graph** show and how do we analyse them?
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| 1. Where are the world’s main **Biomes**?
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| 1. What is the **Savanna**?
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| 1. How are animals **adapted** in ecosystems?
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| 1. How is **flora** and **fauna** adapted in the Savanna?
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| 1. What **threats** does the Savanna face?
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| 1. What are the **solutions** to the Savanna’s threats?
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| 1. What does the future hold for Africa’s **biomes**?
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| 1. What are the characteristics of **Hot Desert Biomes**?
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| 1. What is the future for **Hot Deserts** – Should Tourists climb Ulruru?
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| 1. What are the characteristics of **Tropical Rainforests** – Congo Mystery.
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| **What opportunities are there for wider study****Careers**: Ecologist, Park Ranger, Forest Management, Marine Biologist, Species Protection. Environmentalist, Oceanography, Marine Conservation, Biome Tour Guides, Wildlife Photography, Documentary Presenter, Animal Management.**Places you could visit**:**Local**: * Avon Heath Country Park <https://www.dorsetcouncil.gov.uk/countryside-coast-parks/country-parks-and-visitor-centres/avon-heath-country-park/avon-heath-country-park>
* Arne Nature Reserve, Wareham <https://www.rspb.org.uk/days-out/reserves/arne>
* Stanpit Marsh Natural Reserve <https://www.visit-dorset.com/listing/stanpit-marsh-nature-reserve/117060301/>

**Further Away:*** The Living Rainforest <https://livingrainforest.org/>
* The Natural History Museum <https://www.nhm.ac.uk/>
* The Eden Project <https://www.edenproject.com/>

**Take your learning further**:There are many detailed documentaries out there such as the **Planet Earth** series by **David Attenborough** (available on iplayer). **Ade Adepitan** has filmed the **Africa** series – there are several **YouTube** clips of this. **Hamza Yassin** – Wildlife photographer and presenter – These are available on **iplayer**.**Top Reads** on this topic: <https://fivebooks.com/best-books/best-ocean-novels-for-10-14-year-olds-helen-scales/> 1. Between Sea and Sky by Nicola Penfold
2. The song that sings us by Nicola Davies
3. Blueback by Tim Winton
4. Nation by Terry Pratchett
5. Skin of the sea by Natasha Bowen
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| **How will I be assessed?****Mid Unit**: Geographical Skills Fieldwork Enquiry – How to write up a Geography Investigation (GCSE Paper 3 link)**January Exam 1**: This will include your **Ecosystems** topic as well as Year 7 **Map Skills** and **Location of Continents and Oceans.****Brilliant Revision websites:**  [**https://www.bbc.co.uk/bitesize/topics/ztgw2hv**](https://www.bbc.co.uk/bitesize/topics/ztgw2hv) This is really good for key terms [**https://www.bbc.co.uk/teach/class-clips-video/articles/zkknvk7**](https://www.bbc.co.uk/teach/class-clips-video/articles/zkknvk7)This is an overview of the Savanna**Key Terms you will need to learn and use for this unit are:****Ecosystem**: A group of living things that work together in their natural location.**Biome**: A large area on Earth with similar weather and types of plants and animals. E.g. Hot Desert**Biotic**: Living things in an environment, like plants and animals.**Abiotic**: Non-living things in nature, such as rocks, water, and sunlight.**Food Chain**: A simple line showing how animals eat each other and get energy.**Food Web**: A big picture of how different animals are connected through eating.**Producer**: Plants that make their own food using sunlight, through the process of photosynthesis.**Consumer**: Animals that eat other living things to get energy.**Primary Consumer**: Animals that eat plants, like rabbits or deer. These are the first level in a food web.**Secondary Consumer**: Animals that eat other smaller animals. These are the second level in a food web.**Tertiary Consumer**: Big predators at the top of the food chain. Also known as Apex predators.**Flora**: All the different plants in an area.**Fauna**: All the different animals in an area.**Vegetation**: The plant life that covers a place.**Human Impacts**: How people change or affect nature.**Soil Erosion**: When wind or water wears away the top layer of ground.**Adaptations**: Special features that help animals survive in their habitat.**Climate Graph**: A graph showing how temperature and precipitation change over a year.**Temperature**: How hot or cold something is. Measured in Degrees Celsius.**Precipitation**: Water that falls from the sky like rain or snow. Measured in MM.**Savanna**: A grassy area with a few trees, found between places with tropical Rainforests and places with Hot Desert.**Desertification**: When green land slowly turns into a dry desert.**Sustainable**: Taking care of nature so it stays healthy for a long time. Using resources now but also protecting them for the future. |