**UNIT OVERVIEW:** Biodiversity

**ENQUIRY:** How many species are there on the planet?

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| **Unit intention:** In KS4 you would have learnt the unit Inheritance, variation and evolution, Now you will be looking at the importance of maintaining and measuring biodiversity and in Year 13 this will correlate to the topic Populations and sustainability.  |
| **Success criteria:** | 🗸 | X |
| 1. how biodiversity may be considered at different levels
2. the use and interpretation of Simpson’s Index of Diversity (*D*) to calculate the biodiversity of a habitat
3. the ecological, economic and aesthetic reasons for maintaining biodiversity
4. *in situ* and *ex situ* methods of maintaining biodiversity
5. international and local conservation agreements made to protect species and habitats.
6. practical investigations collecting random and non-random samples in the field
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| **Unit summative and formative assessment details:**Weekly Seneca, factual re-call Extended writing End of unit test  |
| **Home Learning (What and how often):****Home Learning (What and how often):**Homework once a week (flip learning and Seneca)Revisit class content (make notes)Research activities for practical  |
| **Topic Sequence**1. Biodiversity
2. Importance of Biodiversity
3. Conservation and Biodiversity
4. Practical on measuring biodiversity
 | **Recommended reading:** Transport systems in multicellular organisms<https://rd.springer.com/chapter/10.1007/978-1-349-00021-0_4>https://alevelnotes.com/notes/biology/exchange-and-transport/transport-in-animals/the-mammalian-heartHPA Recommended biological dictionary: <http://www.biologyreference.com/>**Places to visit:**Natural History MuseumHorniman MusuemCentre of the cell |

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| **Success criteria** – Have you met them? Show your evidence in the boxes below. |
| **1.** |
| **2.** |
| **3.** |
| **4.** |
| **5.** |
| **6.** |
| **How will you improve your work?** |

**End of Unit EVALUATION**