

## MAGHULL HIGH SCHOOL – CURRICULUM MAP

Unit: 4	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	
<b>LESSON TOPIC QUESTION(S)</b>	What are ecosystems?	What are the earth's major biomes?	How is energy transferred through an ecosystem?	What are the characteristics of deserts?	What is life like in the desert?	How do plants and animals survive in the desert?	
<b>Knowledge &amp; Skills development</b>	<p><b>Lesson objectives:</b></p> <ol style="list-style-type: none"> <li>1. Define ecosystem. Understand the components of a small-scale ecosystem. Understand the difference between food chain and food web.</li> <li>2. Define 'biome'. Name the major biomes. Understand the distribution of world biomes – related to latitude</li> <li>3. Understand the workings of the nutrient cycle. Understand how energy flows through an ecosystem. Understand that these are continuous cycles.</li> <li>4. Explain the distribution of deserts. Describe the climate of deserts</li> <li>5. Appreciate the scale of the biodiversity. Understand the life cycles of wildlife in the deserts</li> <li>6. Define 'adaptation'. Explain how plants and animals adapt to the desert climate.</li> </ol> <p><b>Skills:</b></p> <p>Students analyse information from various infographic and graphic sources developing analytical skills and identifying trends. Students are able to describe climate graphs and the spatial distribution of world biomes.</p>						
<b>Assessment / Feedback Opportunities</b>	<p><b>Formative Assessment</b> Extended writing tasks, green penning worksheets and tasks, plenaries</p>		<p><b>Summative assessment</b> Mid-topic and end of topic tests. Feedback lesson</p>				
<b>Key Vocabulary</b>	Ecosystem, food chain, food web, producer, consumer, decomposer, biotic, abiotic, nutrient, fauna, flora, photosynthesis, solar radiation, biome, latitude, tropical rainforest, tropical grassland/savannah, hot desert, Mediterranean, deciduous forest, coniferous forest (taiga),						
<b>Literacy/Reading opportunities</b>	Reading from information sheets, extended writing						
<b>Cross-Curricular Themes</b>	Science: ecosystems, adaptation						
<b>Personal Development (Including British Values, RSE, Citizenship)</b>	This unit fosters respect for the natural world and an understanding of humans' role within ecosystems, encouraging responsible stewardship and environmental awareness as part of active citizenship.						

<b>Career Opportunities</b>	Students are introduced to careers in ecology, environmental science, wildlife conservation, forestry, and environmental education. The unit helps develop analytical skills, scientific inquiry, and a deeper appreciation of biodiversity, valuable in many STEM and conservation-related roles.
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