



**You will learn about:**

- Classification of organisms and how they are distributed.
- Adaptation and food chains and how material moves around in cycles.
- Waste management and land use linking to global warming.

**You will be able to:**

- Carry out an investigation looking at the spread of organisms through a habitat using sampling techniques.

<p><b>Key learning points</b></p> <table border="1"> <tr><td>Classification</td><td></td></tr> <tr><td>Communities, abiotic and Biotic factors</td><td></td></tr> <tr><td>Distribution of organisms</td><td></td></tr> <tr><td>Sampling required practical</td><td></td></tr> <tr><td>Adaptation and food chains</td><td></td></tr> <tr><td>Pyramids of number and biomass</td><td></td></tr> <tr><td>Decomposition</td><td></td></tr> <tr><td>Fisheries</td><td></td></tr> <tr><td>Material cycles</td><td></td></tr> <tr><td>Biodiversity</td><td></td></tr> <tr><td>Waste management and land uses</td><td></td></tr> <tr><td>Global warming</td><td></td></tr> </table>					Classification		Communities, abiotic and Biotic factors		Distribution of organisms		Sampling required practical		Adaptation and food chains		Pyramids of number and biomass		Decomposition		Fisheries		Material cycles		Biodiversity		Waste management and land uses		Global warming		<p><b>Key Words</b></p> <p><b>Biodiversity</b>  <b>Communities,</b>  <b>Abiotic</b>  <b>Biotic factors</b>  <b>Ecosystem</b>  <b>community,</b>  <b>competition,</b>  <b>habitat,</b>  <b>Interdependence.</b>  <b>Phylum</b>  <b>Order</b>  <b>Organisms</b>  <b>Classification</b>  <b>Herbivore</b>  <b>Ecosystem</b>  <b>Distribution</b>  <b>Consumer</b>  <b>Quadrat</b>  <b>Transect</b>  <b>Species</b>  <b>Genus</b>  <b>Family</b>  <b>Kingdom</b>  <b>Class</b></p>	
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<p><b>Links to other subjects:</b></p> <p>SMSC</p> <ul style="list-style-type: none"> <li>- Explain every day and technological applications of science; evaluate associated personal, social, economic and environmental implications; and make decisions based on the evaluation of evidence and arguments.</li> <li>- Appreciate the power and limitations of science and consider any ethical issues which may arise.</li> </ul> <p>Literacy</p> <ul style="list-style-type: none"> <li>- Use scientific vocabulary, terminology and definitions.</li> <li>- Make and record observations.</li> <li>- Present reasoned explanations including relating data to hypotheses.</li> </ul> <p>Numeracy</p> <ul style="list-style-type: none"> <li>- Make estimates and explain why they may be important.</li> <li>- Calculate mean averages and percentage of numbers of organisms.</li> </ul>																														
Research	Note-making	Group work & discussion	Memorisation	Precision & accuracy	Independence	Reflection																								