

## Year 8 Science

### Learning Programme 4

<p>The LORIC skill focus for his LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p><b>What will I be learning about in this Learning Programme?</b> How weight is different on different planets. How animals and plants survive in various ecosystems, including relevant adaptations.</p> <p><b>Where have I seen this learning before?</b> Cells, tissues, organs and levels of organisation within animals and plants.</p> <p><b>What could I use it for?</b> GCSE science: levels of organisation, how the body works.</p>	<p><b>Literacy:</b></p> <ul style="list-style-type: none"> <li>Capital letters must be used at the start of sentences and for the first letter of proper nouns</li> <li>Full stops must be used at the end of a sentence</li> <li>Question marks must be used at the end of a question</li> <li>Apostrophes should only be used for possession or omission</li> <li>Days of the week and months must be spelled correctly</li> <li>Key words must be spelled correctly</li> </ul>
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<p><b>In LP4.1, I will know:</b> 04/03/24 - (WK 1)</p> <p>how to describe gravity as an attractive force between objects with mass. how to plan and write a method to complete an investigation on weight on different planets. how to plan a practical investigating weight on different planets and analyse results of weight investigation by drawing a graph.</p>	<p><b>Key Vocabulary</b></p> <p>Weight</p>	<p><b>Homework</b></p> <p>Learn spellings.</p>
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<p><b>In LP4.2, I will know:</b> 11/03/24 - (WK 2)</p> <p>how to revise for a summative assessment; how to complete a summative assessment; how to review my learning.</p>	<p><b>Key Vocabulary</b></p> <p>Space</p>	<p><b>Homework</b></p> <p>Learn definitions.</p>
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<p><b>In LP4.3, I will know:</b> 18/03/24 - (WK 1)</p> <p>the meaning of the terms ecosystem, community, population, habitat and niche. how to explain the link between food chains and energy. how to construct a pyramid of numbers and biomass.</p> <p>Extended Task.</p>	<p><b>Key Vocabulary</b></p> <p>Ecosystem</p>	<p><b>Homework</b></p> <p>Knowledge organiser flipper.</p>
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<p><b>In LP4.4, I will know:</b> 25/03/24 - (WK 2)</p> <p>how to describe the interdependence of organisms. some adaptations in animals to reduce competition. how to complete a formative assessment task.</p>	<p><b>Key Vocabulary</b></p> <p>Adaptation</p>	<p><b>Homework</b></p> <p>10 core questions homework.</p>
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<p><b>In LP4.5, I will know:</b> 15/04/24 - (WK 1)</p> <p>how to calculate surface area, volume ratios and link to adaptations. how to explain a range of plant adaptations, including seed dispersal. how to use some sampling techniques.</p>	<p><b>Key Vocabulary</b></p> <p>Sampling</p>	<p><b>Homework</b></p> <p>Extended literacy task.</p>
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<p><b>In LP4.6, I will know:</b> 22/04/24 - (WK 2)</p> <p>how to use quadrats to investigate samples on a field. that inherited characteristics are also impacted by environment. how to model continuous and discontinuous variation.</p> <p>Extended Task.</p>	<p><b>Key Vocabulary</b></p> <p>Inheritance</p>	<p><b>Homework</b></p> <p>10 core questions homework.</p>
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<p><b>In LP4.7, I will know:</b> 29/04/24 - (WK 1)</p> <p>and be able to describe the structure of DNA. how different species evolve to suit an environment. The different methods to conserve biodiversity.</p>	<p><b>Key Vocabulary</b></p> <p>Biodiversity</p>	<p><b>Homework</b></p> <p>Extended exam question.</p>
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<p><b>In LP4.8, I will know:</b> 06/05/24 - (WK 2)</p> <p>the Theory of Evolution by Natural Selection. why fossils are useful when discussing evolution. how to describe evolution as a reason for extinction.</p>	<p><b>Key Vocabulary</b></p> <p>Evolution</p>	<p><b>Homework</b></p> <p>10 core questions homework.</p>
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<p><b>Resources to support learning:</b></p> <p>Knowledge Organiser, Science booklets, BBC bitesize, Carousel learning, MS Teams, OAK academy.</p>
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<p><b>FFET Award Challenge for this Learning Programme:</b></p> <p>LP4 Year 8: Research Franklin, Watson and Crick. Create a short biography on each person and their contributions to our understanding of DNA</p>
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