

## Year 7 Science

### Learning Programme 4

<p>The LORIC skill focus for this LP is: INITIATIVE. The Moral Values foci for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles. I will show integrity by taking responsibility for my actions. Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.</p> <p><b>What will I be learning about in this Learning Programme?</b> This topic advances students' knowledge by introducing the detailed anatomy and functions of the human reproductive system, the menstrual cycle, and stages of foetal development. It also covers plant reproduction, including pollination, fertilisation, seed dispersal, and germination. This progression supports scientific literacy by helping students understand reproduction as a biological process essential for species survival. This topic encourages students to think critically about human impact on the environment and introduces ideas of sustainability, fostering awareness and stewardship from an early stage.</p> <p><b>Where have I seen this learning before?</b> The Reproduction topic builds on KS2 knowledge of basic life cycles and human body systems by exploring the detailed anatomy and processes of human and plant reproduction. This deepens students' understanding of biological development and introduces key concepts that support future learning in genetics and health. The Earth topic expands on KS2 learning about rocks, fossils, and the Solar System by exploring Earth's structure, the rock cycle, and atmospheric changes. It helps students connect scientific concepts to environmental issues and prepares them for more advanced study of Earth and environmental sciences.</p> <p><b>What could I use it for?</b> At KS3, pupils learn about reproduction and Earth Science to understand how living things grow and how our planet changes. This knowledge prepares them for future GCSE topics like genetics, inheritance and climate science, and helps them make informed choices about health and the environment. It also builds foundations for many future careers, such as medicine, veterinary work, engineering and environmental science.</p>		<p><b>Literacy Non-Negotiables:</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> <li>Vocabulary to be taught using the Frayer model</li> </ul>
<p><b>In LP4.1, I will know:</b></p> <p>how to investigate seed germination using cress - IGNITION how to name and describe the main structures in the male and female reproductive systems how to describe the process of fertilisation</p>	<p>09/03/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Reproduction</p>	<p>Homework</p> <p>Complete homework on Spax Science</p>
<p><b>In LP4.2, I will know:</b></p> <p>how to describe the causes of low fertility in male and female reproductive systems how to describe what happens during gestation and birth how to explain whether substances are passed between the mother and foetus</p>	<p>16/03/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Fertilisation</p>	<p>Homework</p> <p>Complete homework on Spax Science</p>
<p><b>In LP4.3, I will know:</b></p> <p>how to state what the menstrual cycle is how to describe the main stages in menstrual cycle</p> <p>Extended Task.</p>	<p>23/03/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Menstruation</p>	<p>Homework</p> <p>Complete homework on Spax Science</p>
<p><b>In LP4.4, I will know:</b></p> <p>how to identify the structures of a flower and link their structure to function how to describe the differences between wind-pollinated and insect-pollinated plants how to carry out and complete a practical knowledge check and PRT</p>	<p>13/04/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Pollination</p>	<p>Homework</p> <p>Complete homework on Spax Science</p>
<p><b>In LP4.5, I will know:</b></p> <p>how to describe the process of fertilisation and germination how to explain why seed dispersal is important to the survival of the parent plant and its offspring how to name and compare the layers of the Earth</p>	<p>20/04/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Germinate</p>	<p>Homework</p> <p>Complete homework on Spax Science</p>
<p><b>In LP4.6, I will know:</b></p> <p>how to explain why sedimentary, igneous and metamorphic rocks have particular properties how to explain the processes of rock formation how to describe the composition of the Earth's atmosphere</p> <p>Extended Task.</p>	<p>27/04/26 - (WK 1)</p> <p>Frayer Model Words</p> <p>Sediment</p>	<p>Homework</p> <p>Complete homework on Spax Science</p>
<p><b>In LP4.7, I will know:</b></p> <p>how to explain the carbon cycle and describe the methods of extracting methods how to describe the process of global warming and describe how Earth's resources are recycled how to complete an independent assessment and PRT to demonstrate learning</p>	<p>04/05/26 - (WK 2)</p> <p>Frayer Model Words</p> <p>Resources</p>	<p>Homework</p> <p>Complete homework on Spax Science</p>
<p><b>Resources to support learning:</b> Spax Science, BBC Bitesize</p>		
<p><b>FFET Award Challenge for this Learning Programme:</b> Choose one plant (for example: dandelion, apple tree, sunflower, coconut palm). Research how that specific plant completes each part of the reproductive cycle and create a leaflet or poster to evidence your learning.</p>		

PRT Task 1

PRT Task 2