

## Year 12 Applied Science SRS Learning Programme 5

<p>The LORIC skill focus for this LP is: COMMUNICATION.</p> <p>The Moral Virtues focus for this LP are: COURAGE and HUMILITY.</p> <p>Courage - Acting with bravery and overcoming fears.</p> <p>Humility - Having a modest view of oneself.</p> <p><b>What will I be learning about in this Learning Programme?</b> You are learning about the electromagnetic spectrum and how this is used in everyday life then about cells, their structure and function.</p> <p><b>Where have I seen this learning before?</b> You will have seen the electromagnetic spectrum in GCSE Physics and covered Eukaryotic and Prokaryotic cells in GCSE Biology.</p> <p><b>What could I use it for?</b> If you do an apprenticeship in communications or in microbiology you will use this knowledge again.</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 LP5.1, I will know:</b> 13/05/24 - (WK 1)</p> <p>what total internal reflection is and the importance of it in modern communication.</p>	<p><b>Key Vocabulary</b></p> <p>communication</p>	<p><b>Homework</b></p> <p>Complete exam questions on refraction.</p>
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<p><b>In LP5.2, I will know:</b> 20/05/24 - (WK 2)</p> <p>some applications of fibre optics. the electromagnetic spectrum in terms of regions and properties and uses of these regions.</p>	<p><b>Key Vocabulary</b></p> <p>internal reflection</p>	<p><b>Homework</b></p> <p>Complete exam questions on reflection.</p>
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<p><b>In LP5.3, I will know:</b> 03/06/24 - (WK 1)</p> <p>cell theory and how microscopy played a major role in developing this; the parts of a cell and their functions.</p> <p>Extended Task.</p>	<p><b>Key Vocabulary</b></p> <p>microscopy</p>	<p><b>Homework</b></p> <p>Complete exam questions on the electromagnetic spectrum.</p>
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<p><b>In LP5.4, I will know:</b> 10/06/24 - (WK 2)</p> <p>how to calculate magnification in different scenarios and how to prepare a sample for magnification by staining; carry out an investigation into cells.</p>	<p><b>Key Vocabulary</b></p> <p>magnification</p>	<p><b>Homework</b></p> <p>Revise for assessment.</p>
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<p><b>In LP5.5, I will know:</b> 17/06/24 - (WK 1)</p> <p>the ultrastructure of eukaryotic and prokaryotic cells.; different cells are specialised for their function and be able to describe these adaptations.</p>	<p><b>Key Vocabulary</b></p> <p>eukaryotic</p>	<p><b>Homework</b></p> <p>Revise for assessment.</p>
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<p><b>In LP5.6, I will know:</b> 24/06/24 - (WK 2)</p> <p>how to complete an assessment into my learning so far; how to review my learning on my assessment.</p> <p>Extended Task.</p>	<p><b>Key Vocabulary</b></p> <p>assessment</p>	<p><b>Homework</b></p> <p>Complete exam questions on microscopy.</p>
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<p><b>In LP5.7, I will know:</b> 01/07/24 - (WK 1)</p> <p>different tissues, their functions and how to identify them; how muscles and neurones work in the human body.</p>	<p><b>Key Vocabulary</b></p> <p>neurone</p>	<p><b>Homework</b></p> <p>Complete exam questions on cells.</p>
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<p><b>In LP5.8, I will know:</b> 08/07/24 - (WK 2)</p> <p>what an action potential is and how it is generated; the events that happen at a synapse.</p>	<p><b>Key Vocabulary</b></p> <p>synapse</p>	<p><b>Homework</b></p> <p>Complete exam questions on tissues.</p>
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<p><b>Resources to support learning:</b></p> <p>Knowledge organiser, booklet, Microsoft Teams.</p>
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<p><b>FFET Award Challenge for this Learning Programme:</b></p> <p>Assist the science department in an after school club or work with the lab technician to gain experience of working in a lab.</p>
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