

Year 12 Applied Science SRS

Learning Programme 4

<p>The LORIC skill focus for his LP is: INITIATIVE. The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles. Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? How to describe and explain how waves are formed, travel and interact with examples of waves and their uses.</p> <p>Where have I seen this learning before? Waves from KS3 and KS4 physics lessons.</p> <p>What could I use it for? University physics degree, careers in communication or engineering.</p>		<p>Literacy:</p> <ul style="list-style-type: none"> Capital letters must be used at the start of sentences and for the first letter of proper nouns Full stops must be used at the end of a sentence Question marks must be used at the end of a question Apostrophes should only be used for possession or omission Days of the week and months must be spelled correctly Key words must be spelled correctly
<p>In LP4.1, I will know:</p> <p>complete an assessment to review your learning; review learning to close gaps.</p>	<p>10/03/25 - (WK 2)</p> <p>assessment</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.2, I will know:</p> <p>how to describe how waves act when moving between different medium; how to express the law of reflection in different scenarios.</p>	<p>17/03/25 - (WK 1)</p> <p>reflection</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.3, I will know:</p> <p>how to explain total internal reflection using ideas of critical angles; how to identify uses of fibre optics in medicine and communication.</p> <p>Extended Task.</p>	<p>24/03/25 - (WK 2)</p> <p>communication</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.4, I will know:</p> <p>how to identify uses of fibre optics in medicine and communication; how to understand the differences between analogue and digital signals, describe how analogue signals are converted to digital signals.</p>	<p>31/03/25 - (WK 1)</p> <p>analogue</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.5, I will know:</p> <p>how to contrast different regions of the EMS for speed and wavelength, use the inverse square law to explain the intensity of wave; how to describe uses of the EMS.</p>	<p>21/04/25 - (WK 2)</p> <p>electromagnetic</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.6, I will know:</p> <p>cell theory and how microscopy played a major role in developing this; how to calculate magnification in different scenarios and how to prepare a sample for magnification by staining.</p> <p>Extended Task.</p>	<p>28/04/25 - (WK 1)</p> <p>microscopy</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>Past paper questions.</p>
<p>In LP4.7, I will know:</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>05/05/25 - (WK 2)</p> <p>eukaryotic</p>	<p>Key Vocabulary</p> <p>Homework</p> <p>Past paper questions.</p>
<p>Resources to support learning:</p> <p>https://www.savemyexams.co.uk/a-level/biology/aqa/17/revision-notes/2-cell-structure/2-1-cell-structure/2-1-6-prokaryotic-v-eukaryotic-cells/ Knowledge organiser, Synergy.</p>		
<p>FFET Award Challenge for this Learning Programme:</p> <p>Visit a museum or science exhibition. Write a summery or make a video while you are there explaining what you have learnt.</p>		

PRT Task 1

PRT Task 2