

Year 9 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. I will show integrity by taking responsibility for my actions.</p> <p>Gratitude - Feeling and expressing thanks. I will show gratitude by saying please and thank you.</p>		<p>Literacy Non-Negotiables:</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 • Vocabulary to be taught using the Frayer model 	
<p>What will I be learning about in this Learning Programme?</p> <p>Different forces and how they can be linked together. The effects of different forces on everyday objects and life.</p>			
<p>Where have I seen this learning before?</p> <p>Forces are measured in Newtons and can be both contact and non contact.</p> <p>What could I use it for?</p> <p>GCSE science: forces and motion, how forces impact movement of objects and car safety features.</p>			
<p>In LP4.1, I will know:</p> <p>what is diffusion and how to describe it; how to Complete summative assessment; how to REVIEW summative assessment;</p>	<p>09/03/26 - (WK 2)</p>	<p>Frayer Model Words</p> <p>Diffusion</p>	<p>Homework</p> <p>Complete Sparx Science task</p>
<p>In LP4.2, I will know:</p> <p>how to describe active transport and explain the factors that affect it; how to describe osmosis and its effects on animal cells; how to plan and write a method to carry out an osmosis practical.</p>	<p>16/03/26 - (WK 1)</p>	<p>Frayer Model Words</p> <p>Stem cell</p>	<p>Homework</p> <p>Complete Sparx Science task</p>
<p>In LP4.3, I will know:</p> <p>how to carry out an investigation into osmosis of potatoes/carrots; how to EXPLAIN which pairs of forces are acting on an object; how to EXPLAIN how forces deform objects in a range of situations.</p> <p>Extended Task.</p>	<p>23/03/26 - (WK 2)</p>	<p>Frayer Model Words</p> <p>Meristem</p>	<p>Homework</p> <p>Complete Sparx Science task</p>
<p>In LP4.4, I will know:</p> <p>how to investigate the relationship between a force and the extension of a spring using the equation $F=ke$; how to investigate the relationship between a force and the extension of a spring; how to complete a formative assessment and PRT.</p>	<p>13/04/26 - (WK 1)</p>	<p>Frayer Model Words</p> <p>Newton</p>	<p>Homework</p> <p>Complete Sparx Science task</p>
<p>In LP4.5, I will know:</p> <p>how to EXPLAIN the effect of drag forces and friction in terms of forces; how to APPLY the effects of forces at a distance to different fields; how to calculate the weight of an object using $w=mg$.</p>	<p>20/04/26 - (WK 2)</p>	<p>Frayer Model Words</p> <p>Forces</p>	<p>Homework</p> <p>Complete Sparx Science task</p>
<p>In LP4.6, I will know:</p> <p>how to DESCRIBE the difference between balanced and unbalanced forces; how to EXPLAIN factors that affect gas pressure; how to EXPLAIN how liquid pressure changes with depth.</p> <p>Extended Task.</p>	<p>27/04/26 - (WK 1)</p>	<p>Frayer Model Words</p> <p>Friction</p>	<p>Homework</p> <p>Complete Sparx Science task</p>
<p>In LP4.7, I will know:</p> <p>how to calculate more complex questions using pressure equation by rearranging; how pressure is increased/decreased by simple machines; how to complete a formative assessment and prt.</p>	<p>04/05/26 - (WK 2)</p>	<p>Frayer Model Words</p> <p>Weight</p>	<p>Homework</p> <p>Complete Sparx Science task</p>
<p>Resources to support learning:</p> <p>Knowledge Organiser, Science booklets on Synergy, BBC bitesize</p>			
<p>FFET Award Challenge for this Learning Programme:</p> <p>Plan and carry out an investigation to find out what is the 'elastic limit' of a strawberry lace sweet.</p>			

PRT Task 1

PRT Task 2