

Year 13 Applied Science SRS Learning Programme 2

<p>The LORIC skill focus for his LP is: ORGANISATION The Moral Virtues focus for this LP are: COMPASSION and HONESTY Compassion - the quality of feeling pity and concern for the sufferings or misfortunes of others. Honesty - the quality of being truthful.</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>What will I be learning about in this Learning Programme? You are learning about fuels and how energy is released through combustion and then about circuits, how to represent them and the impact of resistance.</p>			
<p>Where have I seen this learning before? You have covered fuels in GCSE Chemistry and you have covered circuits in KSE and GCSE Physics.</p> <p>What could I use it for? You will use this again in a BSC (Hons) in Sustainability or in an apprenticeship as a fuel engineer.</p>			
In LP2.1, I will know:	21/10/24 - (WK 2)	Key Vocabulary	Homework
<p>what a fuel is and the process of producing a fuel; how the length of a hydrocarbon chain impacts the properties of the fuel.</p>		hydrocarbon	Exam practice on fuels.
In LP2.2, I will know:	04/11/24 - (WK 1)	Key Vocabulary	Homework
<p>the use of biofuels and the hazards associated with fuels; ideas about incomplete combustion.</p>		combustion	Exam questions on combustion.
LP2 RLW, I will:	11/11/24 - (WK 2)		
<p>review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.</p>		energy	Heat energy calculations.
In LP2.3, I will know:	18/11/24 - (WK 1)	Key Vocabulary	Homework
<p>how to calculate the amount of heat energy released by a fuel; how to investigate the amount of heat energy released from a fuel.</p> <p>Extended Task.</p>		circuit symbols	Exam questions on circuits.
In LP2.4, I will know:	25/11/24 - (WK 2)	Key Vocabulary	Homework
<p>how to use circuit symbols to represent components in a circuit; about Ohm's Law and identify components by the shape of the graph.</p>		revision	Revision for assessment.
In LP2.5, I will know:	02/12/24 - (WK 1)	Key Vocabulary	Homework
<p>my strengths and areas for development for my learning so far.</p>		assessment	Revision for assessment.
In LP2.6, I will know:	09/12/24 - (WK 2)	Key Vocabulary	Homework
<p>resistance in a circuit and the power of a device, link this to the use of correct fuses; the National Grid and the cost of energy.</p> <p>Extended Task.</p>		power	Exam questions on the National Grid.
In LP2.7, I will know:	16/12/24 - (WK 1)	Key Vocabulary	Homework
<p>how to use specific heat capacity to calculate the energy and power supplied; the specific heat capacity investigation.</p>		calculate	Calculations on specific heat capacity.
Resources to support learning:			
<p>Knowledge organiser https://www.youtube.com/watch?v=p47csRloXKl. Knowledge organiser, Microsoft TEAMS</p>			
FFET Award Challenge for this Learning Programme:			
<p>Support with school STEM Club.</p>			

