

## Year 10 GCSE Design & Technology

### Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION. The Moral Virtues focus for this LP are: COURAGE and HUMILITY. Courage - Acting with bravery and overcoming fears. Humility - Having a modest view of oneself. <b>What will I be learning about in this Learning Programme?</b> How mechanisms and electronics are used in product design. How smart, modern and composite materials are used in products. The OCR externally set contexts for the non-examined assessment (NEA) iterative design project. I will know how to explore each context and how to create a design brief and associated research to investigate the needs of users and stakeholders. <b>Where have I seen this learning before?</b> You will have completed a mock NEA during LP1 of Year 10 where you explored contexts. You will also have investigated a range of contexts during the completion of Key Stage 3 design projects. <b>What could I use it for?</b> You will be able to apply your knowledge and understanding of exploring contexts in the non-examined assessment.			<b>Literacy:</b> <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>	
<b>In LP5.1, I will know:</b> how to categories motion types; how controlled movement is introduced to products and systems (6;3).		<b>12/05/25 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
			Mechanical	Movement & mechanisms.
<b>In LP5.2, I will know:</b> how electronic systems provide functionality to products and processes; how smart and modern materials are used in product design.		<b>19/05/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
			Programming	Electronic systems & components.
<b>LP5 RLW, I will:</b>		<b>02/06/25 - (WK 1)</b>		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.			Revision	Use revision techniques to prepare for the summative assessment.
<b>In LP5.3, I will know:</b> which context themes have been released by OCR for the NEA iterative design project; how to explore each design context using the 5Ws mind mapping strategy.		<b>09/05/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
			Context	Explore NEA contexts.
Extended Task.				
<b>In LP5.4, I will know:</b> which context I am completing for my iterative design project to write a design brief; who the primary user and wider stakeholders for my NEA iterative design project are.		<b>16/06/25 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
			Design brief	Primary research of selected context.
<b>In LP5.5, I will know:</b> how to compile interview and survey questions to find out the needs and wants of my primary user and stakeholders; how to present the results of my primary user interview and stakeholder survey; how to prepare and revise for my mock examination.		<b>23/06/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
			Survey	Explore stakeholder needs and wants.
<b>In LP5.6, I will know:</b> how to prepare and revise for my mock examination; how to analyse existing products to identify features and functions.		<b>30/06/25 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
			Analyse	Compile stakeholder survey results.
Extended Task.				
<b>In LP5.7, I will know:</b> how to evaluate the strengths and weaknesses of a range of products similar to the one I will design; how to conduct wider research.		<b>07/06/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
			Research	Explore wider research.
<b>Resources to support learning:</b> The following websites contain extensive revision material and information to increase design & technology subject knowledge: www.technologystudent.com; www.mr-dt.com; www.bbc.co.uk/bitesize - OCR Design & Technology.				
<b>FFET Award Challenge for this Learning Programme:</b> Conduct an interview with the primary user of your DT NEA, or conduct a survey to research your stakeholders needs.				

PRT Task 1

PRT Task 2