Year 13 Design & Technology Product Design
Learning Programme 3

The LORIC skill focus for his LP is: RESILIENCE

The Moral Virtues focus for this LP are: RESPECT and JUSTICE

Respect - treat others how you would wish to be treated yourself.

Justice - our College rules are fair and reasonable.

What will I be learning about in this Learning Programme?

To know how to apply my knowledge of the iterative design process in my NEA. To know how to specify appropriate manufacturing methods for different materials. To know the methods of testing feasibility of getting products to market. The viability of design solutions. To know the standards that must be met in design solutions (ISO, BSI). To know the physical testing methods to meet technical specifications. To know how to assess and minimise risk during manufacturing.

Where have I seen this learning before?

In Year 12 you will have applied workshop processes to make prototypes and will have learnt how polymer products are manufactured.

What could I use it for?

You will apply your knowledge in the A Level D&T examination and will utilise your design skills & understanding in the A Level NEA, the Iterative Design Project.

Literacy:
• 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

	Key Vocabulary	Homework
In LP3.1, I will know: 06/01/25 - (WK 2)		
how to continue to iterate and improve my ideas through card/foam and CAD modelling; how to record the testing and evaluation of my iterations.	Iteration	Record testing & evaluation of sketch models.
In LP3.2, I will know: 13/01/25 - (WK 1)		
how to specify appropriate manufacturing methods for different materials (7.2, 7.3); how to progress with the development stages of my iterative design project.	Commercial manufacturing	Manufacturing processes.
In LP3.3, I will know: 20/01/25 - (WK 2)		
how designers assess whether a design solution meets it's stakeholder requirements (8.1); how to progress with the development stages of my iterative design project.	Feasibility	Feasibility testing.
In LP3.4, I will know: 27/01/25 - (WK 1)		
how designers and manufacturers assess whether a design solution meets the technical specification (8.2); how to finalise the development of my selected ideas, evaluate and summarise strengths and weaknesses. Extended Task.	Testing	Physical testing systems.
In LP3.5, I will know: 03/02/25 - (WK 2)		
how designers and manufacturers determine whether design solutions are commercially viable (8.3); how to review my iterated designs against stakeholder requirements.	Viability	Commercial viability.
In LP3.6, I will know: 10/02/25 - (WK 1)		
how safety can be ensured when working with materials in a workshop (9;1).	Risk assessment	Risk assessments.
LP3 RLW, I will: 24/02/25 - (WK 2)		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.	Revision strategy	Revise for summative assessment.
In LP3.7, I will know: 03/03/25 - (WK 1)		
what the implications of health and safety legislation are on product manufacture (9;2); how to present a final design & technical specification. Extended Task.	Legislation	Health & safety legislation.

PRT Task 1

PRT Task 2

Resources to support learning:

The following websites contain extensive revision material and information to increase design & technology subject knowledge: www.technologystudent.com; Product design maker YouTube tutorials www.productdesignermaker.com; Jude Pullens Lockdown Lectures from Bangor University - YouTube.

FFET Award Challenge for this Learning Programme:

Create a presentation for Year 12 DT to explain how to prepare for the DT Iterative Design Project NEA.