The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 13 Design & Technology Product Design
Learning Programme 4

The LORIC skill focus for his LP is: INITIATIVE.
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.

Integrity - Having strong moral principles.
Gratitude - Feeling and expressing thanks.

What will I be learning about in this Learning Programme?
To know how to finalise the manufacture of the final NEA product. To know how to use primary user and stakeholder feedback to test the viability of NEA product. To know the importance of testing products in context. To know how to assess and minimise risk during manufacturing. To revise all content in preparation for the Principles of Product Design & Problem Solving external examination papers.

Where have I seen this learning before?
In Year 12 you will have applied safe workshop processes to make prototypes. You will also have tested and evaluated prototypes showing real time evidence.

What could I use it for?
You will be able to apply your knowledge of manufacturing and evaluation in your A Level examination papers, as well as apply your understanding to the final strands of the Iterative design Project non-examined assessment (NEA).

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

In LP4.1, I will know: 10/03/25 - (WK 2)	Key Vocabulary	Homework
how to show real time evidence of chronological progression in my NEA; how safety can be ensured when working with materials in a workshop (9;1); what the implications of health and safety legislation are on product manufacture (9;2).	Chronological progression	Update NEA portfolio - real time evidence.
In LP4.2, I will know: 17/03/25 - (WK 1)	**Key Vocabulary**	**Homework**
how to show my initiative when using tools and equipment safely, whilst also showing gratitude for the resources provided; how to apply revision and exam techniques to prepare for topic area 1 questions - identifying requirements.	Usability	Update NEA portfolio. Practice exam question: Topic area 1.
In LP4.3, I will know: 24/03/25 - (WK 2)	**Key Vocabulary**	**Homework**
how to identify next steps in my final prototype manufacturing; how to apply revision and exam techniques to prepare for topic area 2 questions - existing products & practices. Extended Task.	Technological development	Update NEA portfolio. Practice exam question: Topic area 2.
In LP4.4, I will know: 31/03/25 - (WK 1)	**Key Vocabulary**	**Homework**
how to finalise the manufacture of my final prototype and show integrity when gaining primary user feedback; how to apply revision and exam techniques to prepare for topic area 3 questions - implications of wider issues.	Lifecycle assessment (LCA)	Update NEA portfolio. Practice exam question: Topic area 3.
In LP4.5, I will know: 21/04/25 - (WK 2)	**Key Vocabulary**	**Homework**
how to test the feasibility of my final prototype using appropriate methods; how to apply revision and exam techniques to prepare for topic area 4 questions - design thinking & communication.	User centred design	Update NEA portfolio. Practice exam question: Topic area 4.
In LP4.6, I will know: 28/04/25 - (WK 1)	**Key Vocabulary**	**Homework**
how to present my final testing & evaluation results; how to apply revision and exam techniques to prepare for topic area 5 questions - material considerations. Extended Task.	Composites	Practice exam question: Topic area 5.
In LP4.7, I will know: 05/05/25 - (WK 2)	**Key Vocabulary**	**Homework**
how to apply revision and exam techniques to prepare for topic area 6 questions - technical understanding.	Smart and modern technologies	Practice exam question: Topic area 6.

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 Pullen's Lockdown Lectures from Bangor University - YouTube.

FFET Award Challenge for this Learning Programme:
Create revision resources to be used by both Y13 and Y12 DT.