The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 9 Design & Technology - Clock Product Design
Learning Programme 2

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.

What will I be learning about in this Learning Programme?

How designers use a range of design influences and tessellation to create original ideas. The four scales of production and the differences between them. What quality control is and how to apply this when manufacturing with different materials. How to manufacture safely in the workshop.

Where have I seen this learning before?

In Year 7 & 8 design & technology you will have used these tools and equipment to make prototypes from timbers, papers & boards, textiles, metals and polymers. You will have learnt about the sources of different materials and how they are processed.

What could I use it for?

You can use metal, timbers and polymer materials to manufacture products in design & technology over your next 5 years; you will apply your knowledge of materials in the GCSE Design & Technology exam. You can use hand tools to create products in your everyday life.

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 LP2.1, I will know:	**19/10/26 - (WK 2)**	**Key Vocabulary**	**Homework**
the four different scales of production and the differences between them; what is meant by quality assurance and quality control in manufacturing.		Quality	Scales of production.
In LP2.2, I will know:	**02/11/26 - (WK 1)**	**Key Vocabulary**	**Homework**
how to make and use a template to manufacture identical products; how to use a range of precise wastage skills to cut and shape my clock.		Template	Manufacturing aids.
LP2 RLW, I will:	**09/11/26 - (WK 2)**		
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Revise	Use revision techniques to prepare for summative assessment.
In LP2.3, I will know:	**16/11/26 - (WK 1)**	**Key Vocabulary**	**Homework**
how to use a range of precise abrading skills to shape my clock, using a file or abrasive paper. Extended Task.		Abrading	Manufacturing processes.
In LP2.4, I will know:	**23/11/26 - (WK 2)**	**Key Vocabulary**	**Homework**
my strengths and areas for development from my learning so far by completing a summative assessment; how to finish the edges and surfaces of my clock design.		Development	Quality Control.
In LP2.5, I will know:	**30/11/26 - (WK 1)**	**Key Vocabulary**	**Homework**
how British Standards are used to ensure products meet safety requirements; how to accurately cut a threaded bar and file the burred edges to make safe.		Thread	Material stock forms.
In LP2.6, I will know:	**07/12/26 - (WK 2)**	**Key Vocabulary**	**Homework**
how to assemble and finalise the manufacture of my clock. Extended Task.		Finalise	Manufacturing tools and processes.
In LP2.7, I will know:	**14/12/26 - (WK 1)**	**Key Vocabulary**	**Homework**
how to test and evaluate the design and manufacture of my clock against design requirements.		Evaluate	Evaluation and suggested improvements

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.mr-dt.com;
www.bbc.co.uk/bitesize.

FFET Award Challenge for this Learning Programme:

Create a mood board to assist with design inspiration. This can be based on nature, geometric forms, architecture or other forms of inspiration.