The Ellesmere Port C of E College

Part of the Frank Field Education Trust

Year 7 Design & Technology - Graphics & Mechanisms 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?
Paper and board categories, graphical skills and types of movement in mechanical products. I will learn about levers and linkages and the laminating process.

Where have I seen this learning before?
In KS2 design & technology you will have worked with simple mechanism and made models from paper and card.

What could I use it for?
You can use paper and board materials to manufacture products in design & technology over your next 7 years; you will apply your knowledge of papers and boards in the GCSE Design & Technology exam.

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
where the materials categorised as 'papers and boards' come from; what the main stages of the paper making process are.	Source	Explain the stages of the paper making process.
In LP2.2, I will know: 02/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
the environmental concerns of making paper.	Deforestation	Explain the environmental impact of using paper.
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 apply graphics skills including tonal shading and surface rendering; how typography styles such as Word Art can represent the meaning of a word. PRT Task 1 Extended Task.	Rendering	Complete a tonal shading task.
In LP2.4, I will know: 23/11/26 - (WK 2)	**Key Vocabulary**	**Homework**
where different types of movement occur as a result of a mechanical system.	Oscillating & reciprocating	Create a word art design for a film, game or book.
In LP2.5, I will know: 30/11/26 - (WK 1)	**Key Vocabulary**	**Homework**
what the three classes of lever types are and their uses; how to create motion with different types of linkages.	Fulcrum	Investigate the four types of motion.
In LP2.6, I will know: 07/12/26 - (WK 2)	**Key Vocabulary**	**Homework**
how to apply graphical skills to present a precise door information hanger. PRT Task 2 Extended Task.	Tonal shading	Identify the three classes of levers.
In LP2.7, I will know: 14/12/26 - (WK 1)	**Key Vocabulary**	**Homework**
how and why we laminate papers and how this can impact the environment; how to evaluate my door hanger and suggest improvements.	Laminating	Convert units of measurements from cm to mm.

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 greeting card with a moving part (mechanism) attached.