

Year 7 Design & Technology - Graphics & Mechanisms

Learning Programme 1

The LORIC skill focus for this LP is: LEADERSHIP 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.		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	
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.			
In LP1.1, I will know: 01/09/26 - (WK 1) where the materials categorised as 'papers and boards' come from; what the main stages of the paper making process are.		Frayer Model Word	Homework
		Source	Explain the stages of the paper making process.
In LP1.2, I will know: 07/09/26 - (WK 2) the environmental concerns of making paper.		Frayer Model Word	Homework
		Deforestation	Explain the environmental impact of using paper.
In LP1.3, I will know: 14/09/26 - (WK 1) 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.		Frayer Model Word	Homework
		Rendering	Complete a tonal shading task.
Extended Task.			
In LP1.4, I will know: 21/09/26 - (WK 2) where different types of movement occur as a result of a mechanical system.		Frayer Model Word	Homework
		Oscillating & reciprocating	Create a word art design for a film, game or book.
In LP1.5, I will know: 28/09/26 - (WK 1) what the three classes of lever types are and their uses; how to create motion with different types of linkages.		Frayer Model Word	Homework
		Fulcrum	Investigate the four types of motion.
In LP1.6, I will know: 05/10/26 - (WK 2) how to apply graphical skills to present a precise door information hanger.		Frayer Model Word	Homework
		Tonal shading	Identify the three classes of levers.
Extended Task.			
In LP1.7, I will know: 12/10/26 - (WK 1) how and why we laminate papers and how this can impact the environment; how to evaluate my door hanger and suggest improvements.		Frayer Model Word	Homework
		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.			
FEET Award Challenge for this Learning Programme: Create a greeting card with a moving part (mechanism) attached.			

PRT Task 1

PRT Task 2