

## Year 7 Design & Technology - Graphics & Mechanisms

### Learning Programme 5

The LORIC skill focus for his LP is: COMMUNICATION. 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.			<b>Literacy:</b> <ul style="list-style-type: none"><li>• Capital letters must be used at the start of sentences and for the first letter of proper nouns</li><li>• Full stops must be used at the end of a sentence</li><li>• Question marks must be used at the end of a question</li><li>• Apostrophes should only be used for possession or omission</li><li>• Days of the week and months must be spelled correctly</li><li>• Key words must be spelled correctly</li></ul>
<b>What will I be learning about in this Learning Programme?</b> Paper and board categories, graphical skills and types of movement in mechanical products. I will learn about levers and linkages and the laminating process.			
<b>Where have I seen this learning before?</b> In KS2 design & technology you will have worked with simple mechanism and made models from paper and card.			
<b>What could I use it for?</b> 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.			
<b>In LP5.1, I will know:</b>	<b>12/05/25 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
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.
<b>In LP5.2, I will know:</b>	<b>19/05/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
the environmental concerns of making paper.		Deforestation	Explain the environmental impact of using paper.
<b>LP5 RLW, I will:</b>		<b>02/06/25 - (WK 1)</b>	
review my learning, recalling and applying key knowledge, and focus on closing any gaps in my knowledge.		Revision strategy	Revise for summative assessment.
<b>In LP5.3, I will know:</b>	<b>09/05/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
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.		Rendering	Complete a tonal shading task.
Extended Task.			
<b>In LP5.4, I will know:</b>	<b>16/06/25 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
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.
<b>In LP5.5, I will know:</b>	<b>23/06/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
what the three classes of lever types are and their uses; how to use graphical techniques to present a range of ideas for my door hanger.		Fulcrum	Investigate the four types of motion.
<b>In LP5.6, I will know:</b>	<b>30/06/25 - (WK 1)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
how to apply graphical skills to present a precise door information hanger.		Tonal shading	Identify the three classes of levers.
Extended Task.			
<b>In LP5.7, I will know:</b>	<b>07/06/25 - (WK 2)</b>	<b>Key Vocabulary</b>	<b>Homework</b>
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.
<b>Resources to support learning:</b> The following websites contain extensive revision material and information to increase design & technology subject knowledge: www.technologystudent.com; www.mr-dt.com; www.bbc.co.uk/bitesize.			
<b>FFET Award Challenge for this Learning Programme:</b> Create a greeting card with a moving part (mechanism) attached.			

PRT Task 1

PRT Task 2