

Year 7 Design & Technology - Graphics & Mechanisms Learning Programme 4

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| <p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? Paper and board categories, graphical skills and types of movement in mechanical products. Levers and linkages. Laminating process.</p> <p>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.</p> <p>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.</p> | <p>Literacy:</p> <ul style="list-style-type: none"> • 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 |
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| In LP4.1, I will know: | 04/03/24 - (WK 1) | Key Vocabulary | Homework |
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| 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 LP4.2, I will know: | 11/03/24 - (WK 2) | Key Vocabulary | Homework |
| my strengths and areas from development for my learning so far; the environmental concerns of making paper. | | Deforestation | Explain the environmental impact of using paper. |
| In LP4.3, I will know: | 18/03/24 - (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. | | Rendering | Complete a tonal shading task. |
| Extended Task. | | | |
| In LP4.4, I will know: | 25/03/24 - (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 LP4.5, I will know: | 15/04/24 - (WK 1) | Key Vocabulary | Homework |
| 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. |
| In LP4.6, I will know: | 22/04/24 - (WK 2) | Key Vocabulary | Homework |
| how to apply graphical skills to present a precise door information hanger. | | Tonal shading | Identify the three classes of levers. |
| Extended Task. | | | |
| In LP4.7, I will know: | 29/04/24 - (WK 1) | Key Vocabulary | Homework |
| how to apply tonal shading to my door hanger; how and why we laminate papers and how this can impact the environment. | | Laminating | Convert units of measurements from cm to mm. |
| In LP4.8, I will know: | 06/05/24 - (WK 2) | Key Vocabulary | Homework |
| how to evaluate my door hanger and suggest improvements. | | Evaluate | Learning review task. |

Resources to support learning:
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.

FFET Award Challenge for this Learning Programme:
Create a greeting card with a moving part (mechanism) attached.

PRT Task 1

PRT Task 2

Year 7 Design & Technology - Textiles Art Deco Learning Programme 4

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| <p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? The source of natural and manmade fibres. Types of fibres and fabrics and their properties. The Art Deco design movement. To know different hand sewing skills to make an Art Deco keyring.</p> <p>Where have I seen this learning before? In KS2 design & technology you will have completed a practical task using textile materials.</p> <p>What could I use it for? You can use textile materials to manufacture products in design & technology over your next 7 years; you will apply your knowledge of textiles in the GCSE Design & Technology exam. You can use hand sewing skills to repair and create textile items your everyday life.</p> | <p>Literacy:</p> <ul style="list-style-type: none"> • 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 |
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| In LP4.1, I will know: | 04/03/24 - (WK 1) | Key Vocabulary | Homework |
| the difference between natural and manmade synthetic fibres and where they come from; the different types of fibres and their properties. | | Fibre | Where do fibres come from? |

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| In LP4.2, I will know: | 11/03/24 - (WK 2) | Key Vocabulary | Homework |
| my strengths and areas from development for my learning so far; the difference between woven, knitted and non-woven fabrics. | | Woven | Natural fibres research task. |

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| In LP4.3, I will know: | 18/03/24 - (WK 1) | Key Vocabulary | Homework |
| the key features of the Art Deco design movement; how to apply drawing techniques to design a suitable Art Deco keyring. | | Design movement | Synthetic fibres task. |
| Extended Task. | | | |

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| In LP4.4, I will know: | 25/03/24 - (WK 2) | Key Vocabulary | Homework |
| what a construction pattern is in textiles; how paper patterns are used to accurately cut out fabric shapes. | | Pattern | Fabric construction task. |

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| In LP4.5, I will know: | 15/04/24 - (WK 1) | Key Vocabulary | Homework |
| the different hand sewing stitch types used to make textile products. | | Thread | Art Deco tonal shading task. |

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| In LP4.6, I will know: | 22/04/24 - (WK 2) | Key Vocabulary | Homework |
| how to apply hand sewing skills to applique fabric shapes to my keyring. | | Applique | Hand embroidery research task. |
| Extended Task. | | | |

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| In LP4.7, I will know: | 29/04/24 - (WK 1) | Key Vocabulary | Homework |
| how to use finishing stitches to present my final product; how to attach the keyring to the fabric pieces. | | Embroidery | School uniform investigation task. |

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| In LP4.8, I will know: | 06/05/24 - (WK 2) | Key Vocabulary | Homework |
| how to evaluate my finished keyring and suggest improvements. | | Improvement | Learning review task. |

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| <p>FFET Award Challenge for this Learning Programme:</p> <p>Create a moodboard to show the difference between a range of fabrics (both natural & synthetics).</p> |
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Year 7 Design & Technology - Timbers Key Keeper Design Learning Programme 4

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| <p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> <p>What will I be learning about in this Learning Programme? The source, categories and types of timbers. The environmental impact of using timbers to make products. The equipment used to make different cuts in timbers. Workshop safety. The methods of exploring a context and communicating design ideas.</p> <p>Where have I seen this learning before? In KS2 design & technology you will have completed design and practical tasks using a range of modelling materials.</p> <p>What could I use it for? You can use timber materials to manufacture products in design & technology over your next 7 years; you will apply your knowledge of timbers in the GCSE Design & Technology exam. You can use hand tools to repair and create timber items in your everyday life.</p> | <p>Literacy:</p> <ul style="list-style-type: none"> • 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 |
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| In LP4.1, I will know: | 04/03/24 - (WK 1) | Key Vocabulary | Homework |
| the source of timbers and how they are processed; how using timber can have impact on the environment; I will show compassion when discussing this. | | Timber | Timber Processing. |

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| In LP4.2, I will know: | 11/03/24 - (WK 2) | Key Vocabulary | Homework |
| the differences between hardwood and softwood timbers; my strengths and areas for development for my learning so far. | | Deciduous | The impact of timber use on the environment. |



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| In LP4.3, I will know: | 18/03/24 - (WK 1) | Key Vocabulary | Homework |
| about different types of timbers and their uses; the differences between natural timber and manufactured boards. | | MDF Medium density fibreboard | Timber categories. |
| Extended Task. | | | |

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| In LP4.4, I will know: | 25/03/24 - (WK 2) | Key Vocabulary | Homework |
| how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. | | Grain | Manufactured boards. |

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| In LP4.5, I will know: | 15/04/24 - (WK 1) | Key Vocabulary | Homework |
| how to use the 5W strategy to explore the key keeper project. | | Context | Health & safety in the workshop. |



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| In LP4.6, I will know: | 22/04/24 - (WK 2) | Key Vocabulary | Homework |
| how to evaluate existing key keeper products; how to draw in oblique and isometric projection. | | Aesthetics | Product analysis of key holder products. |
| Extended Task. | | | |

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| In LP4.7, I will know: | 29/04/24 - (WK 1) | Key Vocabulary | Homework |
| how to present a range of key keeper design ideas; how to label the key features of my designs. | | Isometric | Isometric drawing. |

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| In LP4.8, I will know: | 06/05/24 - (WK 2) | Key Vocabulary | Homework |
| how to present a range of key keeper design ideas. | | Technique | Learning review task. |

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| <p>FEET Award Challenge for this Learning Programme:</p> <p>Create a collage to show the difference between hardwoods and softwoods.</p> |
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Year 7 Design & Technology - Timbers Key Keeper Manufacture Learning Programme 4

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| <p>The LORIC skill focus for this LP is: INITIATIVE.</p> <p>The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.</p> <p>Integrity - Having strong moral principles.</p> <p>Gratitude - Feeling and expressing thanks.</p> | | <p>Literacy:</p> <ul style="list-style-type: none"> • 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 |
| <p>What will I be learning about in this Learning Programme?</p> <p>To plan the stages of manufacture for my project using a flow chart. To assess the risk of working with tools and equipment before selecting them to make my timbers key keeper. To know how to use workshop tools correctly and safely.</p> | | |
| <p>Where have I seen this learning before?</p> <p>You will build on your learning from the last Learning Programme in which you were introduced to working with timbers in the D&T workshop.</p> | | |

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| In LP4.1, I will know: | 04/03/24 - (WK 1) | Key Vocabulary | Homework |
| how to plan the stages of my key keeper manufacture; what flow chart symbols represent in a flow chart. | | Flow chart | Complete a flow chart planning task. |

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| In LP4.2, I will know: | 11/03/24 - (WK 2) | Key Vocabulary | Homework |
| my strengths and areas from development for my learning so far; how to complete a risk assessment so that I can work safely with tools in the workshop. | | Risk assessment | Safety in the workshop task. |

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| In LP4.3, I will know: | 18/03/24 - (WK 1) | Key Vocabulary | Homework |
| how to use a try square to accurately mark out for cutting; how to use a tenon saw to cut straight lines. | | Try square | Describe the stages of using a tenon saw safely. |

Extended Task.

PRT Task 1

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| In LP4.4, I will know: | 25/03/24 - (WK 2) | Key Vocabulary | Homework |
| how to use the coping saw or scroll saw to cut out my keyrings. | | Coping saw | Describe the stages of using a coping saw safely. |

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| In LP4.5, I will know: | 15/04/24 - (WK 1) | Key Vocabulary | Homework |
| how to use files, abrasive paper and sanding disk to smooth and finish the edges of timber. | | Abrasive paper | Describe the stages of using a scroll saw safely. |

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| In LP4.6, I will know: | 22/04/24 - (WK 2) | Key Vocabulary | Homework |
| how to use the pillar drill to create the hole on my keyring. | | Pillar drill | Describe the stages of using a pillar drill safely. |

Extended Task.

PRT Task 2

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| In LP4.7, I will know: | 29/04/24 - (WK 1) | Key Vocabulary | Homework |
| why timbers require a surface finishes and be able to identify timber finish types. | | Material finishes | Describe a range of timber finishes and their uses. |

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| In LP4.8, I will know: | 06/05/24 - (WK 2) | Key Vocabulary | Homework |
| how to apply a finish to improve the appearance and properties of my key keeper. | | Decorate | Learning review task. |

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| Resources to support learning: | | | |
| The following websites contain extensive revision material and information to increase design & technology subject knowledge: | | | |
| www.technologystudent.com ; | | | |
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| www.bbc.co.uk/bitesize . | | | |

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| FFET Award Challenge for this Learning Programme: | | | |
| Design a health & safety in the workshop poster to inform new pupils into D&T how to work safely. | | | |