



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

ne LORIC skill focus for his LP is: INITIATIVE. ne Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE. tegrity - Having strong moral principles. ratitude - Feeling and expressing thanks. hat will I be learning about in this Learning Programme? uper and board categories, graphical skills and types of movement in mechanical products. I will learn about levers and linkages and the later have I seen this learning before? KS2 design & technology you will have worked with simple mechanism and made models from paper and card.	aminating process.	Capital letters must be used at the star of sentences and for the first letter of proper nouns Full stops must be used at the end of sentence Question marks must be used at the
tegrity - Having strong moral principles. ratitude - Feeling and expressing thanks. rhat will I be learning about in this Learning Programme? per and board categories, graphical skills and types of movement in mechanical products. I will learn about levers and linkages and the la	aminating process.	proper nouns • Full stops must be used at the end of sentence • Question marks must be used at the
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		 Question marks must be used at the end of a question Apostrophes should only be used for
ere have I seen this learning before?		possession or omission Days of the week and months must be spelled correctly Key words must be spelled correctly
that could I use it for? but can use paper and board materials to manufacture products in design & technology over your next 7 years; you will apply your knowle bards in the GCSE Design & Technology exam.	edge of papers and	
LP4.1, I will know: 10/03/25 - (WK 2)	Key Vocabulary	Homework
here the materials categorised as 'papers and boards' come from; hat the main stages of the paper making process are.	Source	Explain the stages of the paper making process.
LP4.2, I will know: 17/03/25 - (WK 1)	Key Vocabulary	Homework
e environmental concerns of making paper.	Deforestation	Explain the environmental impact of using paper.
LP4.3, I will know: 24/03/25 - (WK 2)	Key Vocabulary	Homework
ow to apply graphics skills including tonal shading and surface rendering; ow typography styles such as Word Art can represent the meaning of a word.	Rendering	Complete a tonal shading task.
stended Task.		
LP4.4, I will know: 31/03/25 - (WK 1)	Key Vocabulary	Homework
here different types of movement occur as a result of a mechanical system.	Oscillating & reciprocating	Create a word art design for a film, gar or book.
LP4.5, I will know: 21/04/25 - (WK 2)	Key Vocabulary	Homework
hat the three classes of lever types are and their uses; ow to use graphical techniques to present a range of ideas for my door hanger.	Fulcrum	Investigate the four types of motion.
LP4.6, I will know: 28/04/25 - (WK 1)	Vov Vocabulany	Homowork
w to apply graphical skills to present a precise door information hanger.	Tonal shading	Identify the three classes of levers.
tended Task.		
	Key Vocabulary	Homework
ow and why we laminate papers and how this can impact the environment; ow to evaluate my door hanger and suggest improvements.	Laminating	Convert units of measurements from to mm.
esources to support learning:		





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

Create a greeting card with a moving part (mechanism) attached.





Year 7 Design & Technology - Timbers & Key Keeper Design Learning Programme 4

Learning Frogramme 4		
The LORIC skill focus for his LP is: INITIATIVE.		Literacy:
The Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.		Capital letters must be used at the start
ntegrity - Having strong moral principles.		of sentences and for the first letter of
Gratitude - Feeling and expressing thanks.	proper nouns • Full stops must be used at the end of a	
What will I be learning about in this Learning Programme?	sentence	
The source, categories and types of timbers. The environmental impact of using timbers to make products. The equipment used to make	different cuts in	Question marks must be used at the
timbers. Workshop safety. The methods of exploring a context and communicating design ideas.		end of a question
		Apostrophes should only be used for possession or omission
Where have I seen this learning before?		Days of the week and months must be
-		spelled correctly
		Key words must be spelled correctly
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 ti	imbars in the GCSE	
Design & Technology exam. You can use hand tools to repair and create timber items in your everyday life.	illibers ill the GCSE	
besign a realition by exam. The can use hand tools to repair and areate timber teems in your everyday life.		
In LP4.1, I will know: 10/03/25 - (WK 2)	Key Vocabulary	Homework
the source of timbers and how they are processed;		Timber Processing.
how using timber can have impact on the environment; I will show compassion when discussing this.	Timbor	
	Timber	
In LP4.2, I will know: 17/03/25 - (WK 1)	Key Vocabulary	Homework
the differences between hardwood and softwood timbers.		The impact of timber use on the
		environment.
	Deciduous	
In LP4.3, I will know: 24/03/25 - (WK 2)	Kev Vocabulary	Homework
In LP4.3, I will know: 24/03/25 - (WK 2) about different types of timbers and their uses;	Key Vocabulary	Homework Timber categories.
about different types of timbers and their uses;	MDF Medium	
about different types of timbers and their uses; the differences between natural timber and manufactured boards.		
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task.	MDF Medium density fibreboard	Timber categories.
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about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task;	MDF Medium density fibreboard	Timber categories.
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about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: 21/04/25 - (WK 2) how to use the 5W strategy to explore the key keeper project. In LP4.6, I will know: 28/04/25 - (WK 1)	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary	Homework Manufactured boards. Homework Health & safety in the workshop.
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: In LP4.5, I will know: In LP4.6, I will know: In LP4.6, I will know: Extended Task. Extended Task.	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary	Homework Manufactured boards. Homework Health & safety in the workshop.
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: In LP4.5, I will know: In LP4.6, I will know: In LP4.6, I will know: Extended Task. Extended Task.	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary Aesthetics	Homework Manufactured boards. Homework Health & safety in the workshop. Homework Product analysis of key holder products.
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: In LP4.5, I will know: In LP4.6, I will know: Extended Task. Extended Task. In LP4.7, I will know: 05/05/25 - (WK 2)	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary Aesthetics	Homework Homework Health & safety in the workshop. Homework Product analysis of key holder products.
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: In LP4.5, I will know: In LP4.6, I will know: In LP4.6, I will know: Extended Task. In LP4.7, I will know: O5/05/25 - (WK 2) How to draw in oblique and isometric projection;	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary Aesthetics	Homework Homework Health & safety in the workshop. Homework Product analysis of key holder products.
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: In LP4.5, I will know: In LP4.6, I will know: In LP4.6, I will know: Extended Task. In LP4.7, I will know: O5/05/25 - (WK 2) How to draw in oblique and isometric projection;	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary Aesthetics	Homework Homework Health & safety in the workshop. Homework Product analysis of key holder products.
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: Now to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: In LP4.5, I will know: In LP4.6, I will know: Now to evaluate existing key keeper products. Extended Task. In LP4.7, I will know: OS/05/25 - (WK 2) Now to draw in oblique and isometric projection; how to present a range of key keeper design ideas and label the key features of my designs.	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary Aesthetics	Homework Homework Health & safety in the workshop. Homework Product analysis of key holder products.
about different types of timbers and their uses; the differences between natural timber and manufactured boards. Extended Task. In LP4.4, I will know: how to work safely in a workshop by starting a timbers practical task; how to use different saws for different types of cuts. In LP4.5, I will know: In LP4.5, I will know: In LP4.6, I will know: In LP4.6, I will know: Extended Task. In LP4.7, I will know: O5/05/25 - (WK 2) How to draw in oblique and isometric projection;	MDF Medium density fibreboard Key Vocabulary Grain Key Vocabulary Context Key Vocabulary Aesthetics	Homework Homework Health & safety in the workshop. Homework Product analysis of key holder products.



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

Create a collage to show the difference between hardwoods and softwoods.





Year 7 Design & Technology - Timbers Key Keeper Manufacture Learning Programme 4

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The LORIC skill focus for his LP is: INITIATIVE.		Literacy:
e Moral Virtues focus for this LP are: INTEGRITY and GRATITUDE.		Capital letters must be used at the start
egrity - Having strong moral principles. atitude - Feeling and expressing thanks.		of sentences and for the first letter of proper nouns
		Full stops must be used at the end of a
What will I be learning about in this Learning Programme?		sentence
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	Question marks must be used at the
		end of a question
		Apostrophes should only be used for
		possession or omission
u will build on your learning from the last Learning Programme in which you were introduced to working with timbers in the D&T workshop.		Days of the week and months must be
		spelled correctly
		Key words must be spelled correctly
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 kn	nowledge of timbers in the GCSE	
Design & Technology exam. You can use hand tools to repair and create timber items your everyday life.		
In LP4.1, I will know: 10/03/25 - (WK 2)	Key Vocabulary	Homework
how to plan the stages of my key keeper manufacture;		Complete a flow chart planning task.
what flow chart symbols represent in a flow chart.		, , ,
	Flow chart	
In LP4.2, I will know: 17/03/25 - (WK 1)	Key Vocabulary	Homework
the dangers that can exist in the workshop;		Safety in the workshop task.
how to complete a risk assessment so that I can work safely with tools in the workshop.		
	Risk assessment	
In LP4.3, I will know: 24/03/25 - (WK 2)	Key Vocabulary	Homework
how to use a try square to accurately mark out for cutting;		Describe the stages of using a tenon saw
how to use a tenon saw to cut straight lines.	T	safely.
	Try square	
Future dead Tarely		
Extended Task.	W. Wasak Inc	The second secon
In LP4.4, I will know: 31/03/25 - (WK 1)	Key Vocabulary	Homework
how to use the coping saw or scroll saw to cut out my keyrings.		Describe the stages of using a coping safely.
	Coping saw	Salely.
	Coping saw	
In LP4.5, I will know: 21/04/25 - (WK 2)	Key Vocabulary	Homework
how to use files, abrasive paper and sanding disk to smooth and finish the edges of timber.	ncy vocabalary	Describe the stages of using a scroll
		safely.
	Abrasive paper	,
In LP4.6, I will know: 28/04/25 - (WK 1)	Key Vocabulary	Homework
how to use the pillar drill to create the hole on my keyring.		Describe the stages of using a pillar drill
		safely.
	Pillar drill	
Extended Task.		
In LP4.7, I will know: 05/05/25 - (WK 2)	Key Vocabulary	Homework
why timbers require a surface finishes and be able to identify timber finish types;		Describe a range of timber finishes and
how to apply a finish to improve the appearance and properties of my key keeper.		their uses.
	Material finishes	



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

Design a health & safety in the workshop poster to inform new pupils into D&T how to work safely.