

# Hartford Junior School

## Whole School DT Overview – 2022 / 2023

Lower KS2					
Year 3			Year 4		
Autumn 1	Year / Unit	Topic	Autumn 1	Year / Unit	Topic
	Year 3	<b><u>Textiles:</u></b> Cross stitch and appliqué Cushions or Egyptian Collars		Year 4	<b><u>Electrical systems:</u></b> Torches Using electrical circuits to create a torch made from recycled materials and objects.
<b>Autumn 2</b>			<b>Autumn 2</b>	Year 4	
Year 3			Year 4		
Spring 1	Year / Unit	Topic	Spring 1	Year / Unit	Topic
	Year 3	<b><u>Mechanical Systems:</u></b> Pneumatic toys Design and create a toy with a pneumatic system.		Year 4	<b><u>Mechanical Systems:</u></b> Making a slingshot car Transform lollipop sticks, wheels, dowel and straws into a moving car.
<b>Spring 2</b>	Year 3		<b>Spring 2</b>	Year 4	
Year 3			Year 4		
Summer 1	Year / Unit	Topic	Year / Unit	Topic	
	Year 3	<b><u>Structure:</u></b> Constructing a castle Making their own castle using configurations of handmade nets and recycled materials before constructing a stable base.		Year 4	<b><u>Textiles:</u></b> Fastenings Design and create a book sleeve exploring variety of fastenings and selecting most appropriate for their design.
<b>Summer 2</b>	Year 3			Year 4	

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Upper KS2					
Year 5			Year 6		
Autumn 1	Year / Unit	Topic	Autumn 1	Year / Unit	Topic
	Year 5	<b><u>Mechanical Systems:</u></b> <b>Pop-up Book</b> Create a 4-page story book incorporating a range of functional mechanisms.		Year 6	<b><u>Structure:</u></b> <b>Playgrounds</b> Design and create a model for a new playground featuring five apparatus, made from three different structures.
<b>Autumn 2</b>	Year 5		<b>Autumn 2</b>	Year 6	
Year 5			Year 6		
Spring 1	Year / Unit	Topic	Spring 1	Year / Unit	Topic
	Year 5	<b><u>Structure:</u></b> <b>Bridges</b> Design and create a bridge and test its durability using woodworking tools and techniques.		Year 6	<b><u>Electrical Systems:</u></b> <b>Steady hand game</b> Design and create a steady hand game. Use nets to create the base and apply knowledge of electrical circuits to build an operational circuit with a buzzer.
<b>Spring 2</b>	Year 5		<b>Spring 2</b>	Year 6	
Year 5			Year 6		
Summer 1	Year / Unit	Topic	Year / Unit	Topic	
	Year 5	<b><u>Textiles:</u></b> <b>Stuffed toys</b> Create a stuffed toy. Introduce blanket stitch.		Year 6	<b><u>Food:</u></b> <b>Come dine with me</b> Research and prepare a three-course meal, taste-test and score their food. From <b>Farm to Fork.</b>
<b>Summer 2</b>	Year 5			Year 6	