

# Magdalen Gates Design and Technology 2023/2024



Food	Mechanisms/Mechanical Systems	Structures	Textiles	Electrical Systems
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	Term 1	Term 2 Change and Progress	Term 3	Term 4 Technological advancement	Term 5	Term 6 Conflict and Power
<b>EYF S</b>	Keeping safe. Introduction to saw and hammer. Collaborative piece	Supported Calendars for Christmas	Joining 2 pieces of wood	Collaborative piece,	Design, make and decorate an individual model.	Keeping safe. Introduction to saw and hammer. Collaborative piece
<p><b>Basic Level Joins</b></p> <p>glue stick, PVA glue with a glue brush, PVA glue with a spreader, make glue from flour</p> <p><b>Mid Level Joins</b></p> <p>masking tape, sticky tape, folding paper and card, elastic band, sticky tack, a paper clip, a stapler</p> <p><b>High Level Joins</b></p> <p>hole punch (single and double) split pins, treasury tags, stitching</p>						
<b>Year 1</b>	<b>Food:</b> <b>What can we take on a picnic? (healthy)</b> Preparing fruit and vegetables	MUSIC	<b>Mechanisms:</b> <b>Can we make a book with moving parts all about toys?</b> Sliders and levers	MUSIC	<b>Structures:</b> <b>Can we make a building with a tower?</b> Freestanding structures	MUSIC

	(including cooking and nutrition requirements for KS1)		Moving books donation		Tower to support a weight	
<b>Year 2</b>	MUSIC	<b>Textiles:</b> <b>Can we make a soft toy?</b> Templates and joining techniques  Videos and base template	MUSIC	<b>Mechanisms:</b> <b>Can we make a soap box racer?</b> Wheels and axles  <b>Cricut?</b>	MUSIC	<b>Food:</b> <b>Can we plan and make a yogurt for breakfast?</b> Preparing fruit and vegetables (including cooking and nutrition requirements for KS1) DT FB group yoghurt recipes <a href="https://www.themaltmiller.co.uk/product/mad-millie-greek-yoghurt-kit/">https://www.themaltmiller.co.uk/product/mad-millie-greek-yoghurt-kit/</a>
<b>Year 3</b>	<b>Structures:</b> -Shell structures <b>Can we make a box? (for a toy car)</b>  <b>Cricut machine</b>	MUSIC	<b>Textiles:</b> 2-D shape to 3-D product <b>Can we make an purse?</b>  Additional adult (plus JM adult?)	MUSIC	<b>Food:</b> <b>Can I make a healthy lunch? (pitta pockets)</b> Healthy and varied diet (including cooking and nutrition requirements for KS2)	MUSIC

<b>Year 4</b>	MUSIC	Mechanical systems: <b>Can we make a pop up Christmas card?</b> -levers and linkages	MUSIC	Electrical systems: <b>Can I make an illuminated display?</b> <b>Astrology?</b> -simple programming and control	MUSIC	Food: <b>Can we make a snack bar?</b> Healthy and varied diet (including cooking and nutrition requirements for KS2)
<b>Year 5</b>	Food: <b>Can we make seasonal foods? Muffins</b> celebrating culture and seasonality (including cooking and nutrition requirements for KS2) Additional adult	ART	Structures: <b>Can we make a kite?</b> frame structures?  Cricut WIRE for skeleton of kite	ART	Textiles: <b>Can we make a reusable shopping bag?</b> -Combining different fabric shapes  cricut  <a href="https://www.hobbycraft.co.uk/hobbycraft-midi-sewing-machine/6143491000.html">https://www.hobbycraft.co.uk/hobbycraft-midi-sewing-machine/6143491000.html</a>	ART
<b>Year 6</b>	Mechanical systems: <b>Can I make a moving race car? (Formula 1 in Schools)</b>		Food: <b>Can we create a quick cook bread?</b> celebrating culture and		Electrical systems: <b>Can we create a baby sensory light?</b>	

	<p>-pulleys or gears</p> <p>Racing – air launch control box and pump (borrow???)</p>		<p>seasonality (including cooking and nutrition requirements for KS2)</p> <p>(check with Jill – ok to use kitchen and hall?)</p> <p>Additional adults</p>		<p>-using more complex switches and circuits</p>	
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KS1 and KS2 should have a minimum of 8 hours DT in the half term that it is taught in.