



## Design and Technology Long term planning (LTP)

### Design and Technology LTP for 2024-2025 – Updated September 2024

Subject lead Pippa Gillett

Key Stage	Pathway Class Group	Cycle Rotation	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Key Stage 2</b> (This is rotation A – of a 4 yearly rotation)  <b>Based on KS1 &amp; KS2 National Curriculum and ILP fine motor skills development</b>	<b>Green Pathway Key stage 2</b>	<b>½ termly rotation with another subject</b>	<b>Puppetry:</b> Design, Make and Evaluate different puppet toys.		<b>Moving parts (paper):</b> Make, Design and Evaluate different mechanisms for 'interactive story books'.  <b>Mechanisms:</b> levers, slides, wheels, axels		<b>Bookmarks:</b> Make, Design and Evaluate different textile bookmarks.	
	<b>Red Pathway Key Stage 2</b>	<b>½ termly rotation with another subject</b>	<b>Puppetry:</b> Design, Make and Evaluate different puppet toys for story telling.  <b>Technical Knowledge</b> Optional stretch and challenge: incorporate an electrical system		<b>Moving Parts (card):</b> Design, Make and Evaluate different mechanisms for 'interactive story books'.  <b>Mechanisms:</b> Gears, pulleys, cams, levers, linkages		<b>Bookmarks:</b> Design, Make and Evaluate different textile bookmarks incorporating an electrical system (light/music push buttons).	



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<b>Key Stage 3</b>  <b>Based on KS2 &amp; KS3 National curriculum and ILP fine motor skills development</b>	<b>Year 7/8 Green Pathway</b>	<b>½ termly rotation with two other subjects</b>	<b>Textile pouch:</b> Design, Make and Evaluate a textile pouch with basic function			<b>Pneumatic Monster:</b> Design, Make and Evaluate different pneumatic functions.		
	<b>Year 7/8 Red pathway</b>	<b>½ termly rotation with two other subjects</b>	<b>Textile pouch:</b> Design, Make and Evaluate a textile pouch with good function and additional feature (button, pocket, zip)			<b>Pneumatic Monster:</b> Design, Make and Evaluate different pneumatic functions to be used in toys.  <b>Technical Knowledge</b> Optional challenge: Incorporate a relevant sound electronic system		



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<b>Key Stage 3</b>  Based on KS2 & KS3 National curriculum and ILP fine motor skills development	PAT/Thurston	½ termly rotation with two other subjects	<b>Textile pouch:</b> Design, Make and Evaluate a textile pouch with good function and additional feature (button, pocket, zip)			<b>Pneumatic Monster:</b> Design, Make and Evaluate different pneumatic functions to be used in toys.  <b>Technical Knowledge</b> Optional challenge: Incorporate an appropriate electronic sound system		



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<b>Key Stage 3</b>  <b>Based on KS2 &amp; KS3 National curriculum and ILP fine motor skills development</b>	<b>Year 9 Green Pathway</b>	<b>½ termly rotation with two other subjects</b>	<b>Memphis Clock:</b> Design, Make and Evaluate a functioning electronic clock.  Optional Pop Art (Simplified design brief circles and stripes)			<b>Personalised Cushion:</b> Design, Make and Evaluate a cushion cover developing key textile skills (hand sewing)		
	<b>Year 9 Red pathway</b>	<b>½ termly rotation with two other subjects</b>	<b>Memphis Clock:</b> Design with CAD, Make and Evaluate a functioning electronic clock			<b>Personalised Cushion:</b> Design, Make and Evaluate a cushion cover developing key textile skills (applique, quilting & hand sewing)		



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<b>Aspire</b>  <b>AQA Unit Awards</b>	<b>Aspire</b>	1 Practical lesson per week	<b>AQA 121496</b>  Designing and Making a bird box reflecting an established design style		<b>AQA 121888</b>  Designing and building cardboard shoes		<b>AQA (Y1) 114706</b>  Constructing and Coding a basic robot	
	<b>Year 2 Cycle</b>	1 Practical lesson per week	<b>AQA 120569</b>  Making a hedgehog house		<b>AQA 111811</b>  Making a polymer Clay Jewelry broach		<b>AQA 116589</b>  Making garden furniture from a pallet	