

Design and Technology Curriculum Overview

DT	Autumn	Spring	Summer
Year 1	<p style="text-align: center;">Mechanisms - Sliders and levers</p> <p><u>Outcome:</u> To use sliders and levers to design a moving Christmas Card</p>	<p style="text-align: center;">Food - Preparing fruit and vegetables</p> <p><u>Outcome:</u> To prepare fruits and vegetables to create a healthy vegan snack</p> <p style="text-align: center;">Significant individual: Chloe Coscarelli</p>	<p style="text-align: center;">Mechanisms - Wheels and axles</p> <p><u>Outcome:</u> To design a moving product using wheels and axles</p> <p style="text-align: center;">Significant individual: Elon Musk</p>
Year 2	<p style="text-align: center;">Structures - Freestanding structures</p> <p><u>Outcome:</u> To create a free standing structure that will hold the weight of a magnet</p> <p style="text-align: center;">Significant individual: William Holford</p>	<p style="text-align: center;">Mechanisms - Sliders and levers</p> <p><u>Outcome:</u> To use sliders and lever to create a moving picture book</p>	<p style="text-align: center;">Textiles - Templates and joining techniques</p> <p><u>Outcome:</u> To use template and joining techniques to design a product that will entertain children</p>
Year 3	<p style="text-align: center;">Mechanical Systems - Levers and linkages</p> <p><u>Outcome:</u> To use levers and linkage to create a moving scene</p> <p style="text-align: center;">Collaborative work</p>	<p style="text-align: center;">Textiles - 2-D shape to 3-D product</p> <p><u>Outcome:</u> To use 2-D shapes to create a 3-D product that will cover the torso</p> <p style="text-align: center;">Significant individual: Ruben Reuel</p>	<p style="text-align: center;">Food - Healthy and varied diet</p> <p><u>Outcome:</u> To make a healthy sandwich</p> <p style="text-align: center;">Significant individual: Jamie Oliver</p>
Year 4	<p style="text-align: center;">Structures - Shell structures</p> <p><u>Outcome:</u> To use shell structures to create a product that will hold a Christmas gift</p>	<p style="text-align: center;">Mechanical Systems - Pneumatics</p> <p><u>Outcome:</u> To use pneumatics to make an object move</p>	<p style="text-align: center;">Electrical Systems - Simple circuits and switches</p> <p><u>Outcome:</u> To use simple circuits and switches to design a product that creates light</p> <p style="text-align: center;">Significant individual: Alessandro Volta</p> <p style="text-align: center;">Collaborative work</p>
Year 5	<p style="text-align: center;">Mechanical Systems - Pulleys</p> <p><u>Outcome:</u> To use a pulley system to create a product that will entertain a child</p> <p style="text-align: center;">Collaborative work</p>	<p style="text-align: center;">Textiles - Combining different fabric shapes</p> <p><u>Outcome:</u> To combine different fabric shapes to create a product that will be suitable for carrying items</p>	<p style="text-align: center;">Food - Celebrating culture and seasonality</p> <p><u>Outcome:</u> To use knowledge of culture and seasonality to create a savoury snack</p> <p style="text-align: center;">Significant individual: Nadiya Hussain</p>

Year 6	Mechanical Systems – Cams <u>Outcome:</u> To use a CAMS system to create a mechanical toy	Structures - Frame structures <u>Outcome:</u> To design a frame structure Significant individual: Dame Zaha Hadid	Electrical Systems - More complex switches and circuits <u>Outcome:</u> To use complex switches and circuits to bring a product into action Significant individual: Thomas Edison Collaborative work
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