



## Holy Cross Catholic Primary School

Design & Technology Curriculum Map: 2021– 2022

	Autumn	Spring	Summer
<b>Year 1</b>	<b>Mechanisms</b>  Sliders and levers Design/make their own moving picture book  Can you make your picture tell a story?	<b>Preparing fruit and vegetables</b>  Examine a range of fruit and vegetables Design and make a salad and dressing  Can you make a rainbow salad?	<b>Structures</b>  Explore different materials and their properties  Can you make a playground for a book character?
<b>Year 2</b>	<b>Textiles</b>  Templates and joining techniques Design and make a fabric product (Spring 1)  Can you make a kite that is waterproof?	<b>Preparing fruit and vegetables</b>  Examine a range of fruit and vegetables Design and make a fruit kebab and dip (Spring 2)  How do I make a healthy snack?	<b>Mechanisms</b>  Wheels and axles Design/make their own moving vehicle  Help the farmer, design a truck to collect eggs.
<b>Year 3</b>	<b>Mechanical systems</b>  Pneumatics Design and make a product using a pneumatic system  Can your monster chomp?	<b>Textiles</b>  Templates and joining techniques Design/make their own fabric product of a 2D shape  Make a pencil case- Stop losing your pencil!	<b>Electrical systems</b>  Explore simple series circuits Design and make a night light

<b>Year 4</b>	<p><b>Mechanical systems</b></p> <p>Levers and linkages Design and make a product using levers and linkages Make a mechanical picture to help teach a topic</p>	<p><b>Structures</b></p> <p>Shell structures Design/make packaging for a specific product Design a prototype healthy eating lunchbox</p>	<p><b>Electrical systems</b></p> <p>Computer control program to control an output device Design/make a side show game for our summer fair.  Roll up Roll up, come and play our Electric Buzz games</p>
<b>Year 5</b>	<p><b>Mechanical systems cams</b></p> <p>Focus on rotary, oscillating and reciprocating movements Design and make a simple model of different cams after looking at toys which use a cam mechanism  Make a mechanical toy for a child at Christmas</p>	<p><b>Structures</b></p> <p>Focus on frame structures Make a plant frame for beans  Mine is taller, stronger,better !</p>	<p><b>Textiles</b></p> <p>Focus on joining techniques Design a protective case for our Ipad  Protect the Ipad!</p>
	<p><b>Electrical systems</b></p> <p>Build on all prior electrical systems learning using computer control software and writing/modifying programmes Design and make a programme to control lights Using MICROBITS make a pedometer  Are you walking enough?</p>	<p><b>Textiles</b></p> <p>Build on all prior textiles learning Design/make a chair organiser  Can you make a chair organiser that will hold all your essential items for school?</p>	<p><b>Mechanical systems</b></p> <p>Build on all prior mechanical systems learning Design/make a fairground ride.  How many moving parts will your ride have?</p>

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Cooking and Nutrition – Food Week			<p>This will be part of the Sport and Well-being week in June.</p> <p>Working with Engage and Change to explore how to keep healthy and well.</p>	<p>This will be part of the Sport and Well-being week in June.</p> <p>Working with Engage and Change to explore how to keep healthy and well.</p>	<p>This will be part of the Sport and Well-being week in June.</p> <p>Working with Engage and Change to explore how to keep healthy and well.</p>	<p>This will be part of the Sport and Well-being week in June.</p> <p>Working with Engage and Change to explore how to keep healthy and well.</p>