



Holy Cross Catholic Primary School

Design & Technology Curriculum Map: 2021– 2022

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

Year 4	<p align="center">Mechanical systems</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 align="center">Structures</p> <p>Shell structures Design/make packaging for a specific product Design a prototype healthy eating lunchbox</p>	<p align="center">Electrical systems</p> <p>Computer control program to control an output device Design/make a nightlight using simple programming and control Time to get up ? How will you know?</p>
Year 5	<p align="center">Mechanical systems cams</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 align="center">Electrical systems</p> <p>Focus on more complex switches and circuits Design/make a make a Buzz game for the school fair. Make a buzz game that the children want to play.</p>	<p align="center">Structures</p> <p>Focus on frame structures Make a plant frame for beans Mine is taller , stronger, better !</p>
Year 6	<p align="center">Electrical systems</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 align="center">Textiles</p> <p>Build on all prior textiles learning Design/make a utility belt Can you make a utility belt that will hold all your essential items for an overnight adventure?</p>	<p align="center">Mechanical systems</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>