



Churchside Federation Long Term Planning



Subject: Design Technology

Year Group	Journeys	This is me	Night at the Museum	Metamorphosis	Kings and Queens	Passport to the world
Reception	<p>DT1/1.1a design purposeful, functional, appealing products for themselves and other users based on design criteria. GT</p> <p>DT1/1.4b explore and use mechanisms, in their products. GT</p>	<p>DT1/2.1a use the basic principles of a healthy and varied diet to prepare dishes. GT</p>	<p>DT1/1.2a select from and use a range of tools and equipment to perform practical tasks</p> <p>DT1/1.2b select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</p>	<p>DT1/1.3a explore and evaluate a range of existing products</p> <p>DT1/1.3b evaluate their ideas and products against design criteria.</p>	<p>DT1/1.1b generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. GT</p> <p>DT1/1.4a build structures, exploring how they can be made stronger, stiffer and more stable. GT</p>	<p>DT1/2.1b understand where food comes from. GT</p>
Year One	<p>DT1/1.1a design purposeful, functional, appealing products for themselves and other users based on design criteria. GT</p> <p>DT1/1.4b explore and use mechanisms, in their products. GT</p>	<p>DT1/2.1a use the basic principles of a healthy and varied diet to prepare dishes. GT</p>	<p>DT1/1.2a select from and use a range of tools and equipment to perform practical tasks</p> <p>DT1/1.2b select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</p>	<p>DT1/1.3a explore and evaluate a range of existing products</p> <p>DT1/1.3b evaluate their ideas and products against design criteria.</p>	<p>DT1/1.1b generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. GT</p> <p>DT1/1.4a build structures, exploring how they can be made stronger, stiffer and more stable. GT</p>	<p>DT1/2.1b understand where food comes from. GT</p>
Year Two	<p>DT1/1.1a design purposeful, functional, appealing products for themselves and other</p>	<p>DT1/2.1a use the basic principles of a healthy and varied diet to prepare dishes. GT</p>	<p>DT1/1.2a select from and use a range of tools</p>	<p>DT1/1.3a explore and evaluate a range of existing products</p>	<p>DT1/1.1b generate, develop, model and communicate their ideas through talking, drawing,</p>	<p>DT1/2.1b understand where food comes from. GT</p>



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	<p>users based on design criteria. GT</p> <p>DT1/1.4b explore and use mechanisms, in their products. GT</p>		<p>and equipment to perform practical tasks</p> <p>DT1/1.2b select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.</p>	<p>DT1/1.3b evaluate their ideas and products against design criteria.</p>	<p>templates, mock-ups and, where appropriate, information and communication technology. GT</p> <p>DT1/1.4a build structures, exploring how they can be made stronger, stiffer and more stable. GT</p>	
Year Three		<p>Food technology – creating our own recipe booklet of our favourite foods. To understand how to prepare and cook a range of savoury dishes using different techniques.</p>	<p>To create a lighting system for our exhibits. I can make a product which uses both electrical and mechanical components.</p>		<p>To design and create a crown. To generate ideas for a project considering purpose and uses. I can use ideas from other people.</p>	<p>Textiles – To sew an artefact of clothing using printed material. I can choose a textile for its suitability and its appearance. I can persevere and adapt my work.</p>
Year Four		<p>Cooking and nutrition understand and apply the principles of a healthy and varied diet ♣ prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques ♣ understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed GT</p>	<p>Structures, strengthen and stiffening, 3D frameworks (designing display cases for artefacts) apply their understanding of how to strengthen, stiffen and reinforce more complex structures ♣ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] GT</p>		<p>Textiles and puppets use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups ♣ generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design</p>	<p>Structures: musical instruments Investigate and analyse a range of existing products ♣ evaluate their ideas and products against their own design criteria and consider the views of others to improve their work</p>



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					<p>select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately</p> <ul style="list-style-type: none"> ♣ select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities 	
Year Five		<p>Investigate development of mobile phone technology investigate and analyse a range of existing products</p> <ul style="list-style-type: none"> ♣ evaluate their ideas and products against their own design criteria and consider the views of others to improve their work ♣ understand how key events and individuals in design and technology have helped shape the world GT 		<p>How to strengthen, stiffen and reinforce structures. Apply their understanding of how to strengthen, stiffen and reinforce more complex structures</p> <ul style="list-style-type: none"> ♣ understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] GT 		<p>Cooking and Nutrition understand and apply the principles of a healthy and varied diet</p> <ul style="list-style-type: none"> ♣ prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques ♣ understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed GT



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<p>Year Six</p>	<p>Cooking and nutrition understand and apply the principles of a healthy and varied diet ♣ prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques ♣ understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed GT</p>		<p>Cabinets for artefacts Select from and use a wider range of tools and equipment to perform practical tasks accurately. ♣ understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] ♣ apply their understanding of computing to program, monitor and control their products. GT</p>			<p>Cooking and nutrition understand and apply the principles of a healthy and varied diet ♣ prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques ♣ understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed GT</p>
<p>Events:</p> <ul style="list-style-type: none"> • Macmillan Worlds Biggest Coffee Morning – 27/09/20; • Healthy Eating week – 28/09/20 to 4/10/20; • Harvest festival – October 2020; • Engineers week – 06/03/21; • National Vegetarian week – 11/05/21 to 17/05/21; • The Big Lunch – 01/06/21; • Food Safety week – 04/06/21 – 10/06/21; 						

GT = link to Golden Threads.