

Fairisle Junior School Overview of DT Skills 2021-2022

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
Year 3 Project:	<i>Plastic Sucks!</i>	<i>Going, Going Scone!</i>	<i>Misunderstood Monsters</i>	<i>Rocking Through Time</i>	<i>Groovy Greeks</i>	
Skills:	<p>Can you repurpose an old t-shirt? D.T. – T-shirt tote bag <i>Research, experiment, design and evaluate a functional and aesthetic product which repurposes, linking to recycling and saving the environment.</i></p> <p>Background Research: I am learning to identify what a product has been made from.</p> <p>Design: I am learning to describe the purpose of my product.</p> <p>Generate: I am learning to share ideas with others. I am learning to order the main stages of making through diagrams.</p> <p>Make: I am learning to choose suitable tool for making. I am learning to measure, mark and cut materials with some accuracy. I am learning to use finishing techniques, including skills learned in Art.</p> <p>Evaluate: I am learning to evaluate my product identifying both strengths and areas for further development.</p>	<p>Can you win the Great Fairisle Bake Off? Cooking and Nutrition D.T. – Fairisle Bake Off <i>Researching, designing, generating, making & evaluating their own sandwich and cake product</i></p> <p>Background Research: I am learning to identify what the product has been made from. (Taste testing) I am learning where ingredients come from including which foods are caught, reared or grown in the UK and abroad.</p> <p>Design: I am learning to gather information about what a particular group of people want from a product. (Target audience – my family) I am learning to use my knowledge of healthy eating to design well-balanced products.</p> <p>Generate: I am learning to experiment with ingredients and understand that recipes can be changed by adding or taking away ingredients. (Trial scones and sandwiches)</p> <p>Make: I am learning to select suitable equipment and use cooking techniques in a safe and hygienic way.</p> <p>Evaluate: I am learning to evaluate my products by identifying strengths and areas for further development.</p>			<p>How did Epeius build The Trojan Horse? Can you create a replica? D.T. – Trojan Horse <i>Designing, making & evaluating own product & using a range of tools & equipment for practical tasks (e.g. cutting, shaping, joining & finishing)</i></p> <p>Background Research: I am learning to identify who made the product, when it was made and its purpose. I am learning to identify what the product was made from.</p> <p>Design: I am learning describe how my product fits the purpose.</p> <p>Generate: I am learning to order the main stages of making by creating diagrams and annotated sketches. I am learning to select materials to create a prototype.</p> <p>Make: I am learning to select suitable tools and measure, make and cut with some accuracy. I am learning to support, join, assemble and combine materials.</p> <p>Evaluate: I am learning to evaluate my products by identifying strengths and areas for further development.</p> <p>Technical Knowledge: I am learning to strengthen, stiffen and reinforce simple structures. (Support, join, assemble and combine)</p>	

Year 4 Project:	<i>Journey to the Jungle</i>	<i>You're Gonna Hear Me Roar</i>	<i>I Came, I Saw, I Conquered</i>	<i>Mummy Mayhem</i>	<i>A Taste of Paradise</i>	<i>Bright Sparks</i>
Skills:	<p>You need to present your information in an interactive way – how could you do this?</p> <p>D.T. – Pop-up Books <i>Researching & developing an innovative, functional & appealing product aimed at a particular audience, selecting materials due to functional & aesthetic qualities & evaluate</i></p> <p>Background Research: I am learning to evaluate a product on design and use.</p> <p>Design: I am learning to identify features that will appeal to intended users.</p> <p>Generate: I am learning to create and evaluate prototypes. I am learning to order the main stages of making and represent ideas using diagrams and annotated sketches.</p> <p>Make: I am learning to measure, mark, cut and shape materials mostly accurately. I am learning to use finishing techniques, including skilled learned in Art, with some accuracy.</p> <p>Evaluate: I am learning to consider whether my product fulfils the audience and purpose of the task.</p> <p>Technical Knowledge: I am learning to use my knowledge of simple mechanical systems to design a moving product.</p>				<p><i>Can you make a healthy pizza?</i></p> <p>Cooking and Nutrition D.T. – Healthy Pizza <i>Researching, designing, generating, making & evaluating their own pizza product</i></p> <p>Background Research: I am learning what a product has been made from.</p> <p>Design: I am learning to describe the purpose of my product.</p> <p>Generate: I am learning to share and discuss ideas with others. I am learning to use my knowledge of how a recipe can be changed to create my own recipe choices (e.g. ingredients they want to add or remove from their pizza).</p> <p>Make: I am learning to prepare simple dishes hygienically and safely, where needed with a heat source (pizza)</p> <p>Evaluate: I am learning to use my plan to evaluate my product – identifying both strengths and areas for development.</p> <p>Technical Knowledge: I am learning to use a range of techniques including measuring, kneading, chopping and baking.</p>	<p>Using your knowledge of electricity, can you create your own product to keep you cool during the summer?</p> <p>D.T. – Battery operated fan <i>Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors)</i></p> <p>Background Research: I am learning to identify what the product has been made from.</p> <p>Design: I am learning to understand and gather information about what a particular group want from a product.</p> <p>Generate: I am learning to choose materials to use based on suitability of their properties. I am learning to create and evaluate a prototype.</p> <p>Make: I am learning to join, assemble and combine materials and components. I am learning to use finishing techniques, including skilled learned in Art, with some accuracy.</p> <p>Evaluate: I am learning to consider whether my product fulfils the audience and purpose of the task. I am learning to use my plan to evaluate my product – identifying both strengths and areas for development.</p> <p>Technical Knowledge: I am learning to understand and use simple electrical circuits and switches.</p>

Year 5 Project:	<i>To Infinity & Beyond</i>	<i>The End of the World?</i>	<i>Crime & Punishment</i>	<i>The Rainbow Bridge</i>	<i>Down by the River</i>	<i>Guilty or not guilty?</i>
Skills:			<p>How can you create a nutritious soup using seasonal vegetables? D.T. – Back to nature cooking <i>Research, design, make and evaluate a healthy, nutritious soup considering the seasonality of ingredients</i></p> <p>Background Research I am learning to investigate which food is available in the UK. I am learning about the seasonality of foods in the UK.</p> <p>Design I am learning to design my own soup recipe using seasonal vegetables.</p> <p>Generate I am learning to taste a variety of foods and evaluate them. I am learning to mix and blend different flavours.</p> <p>Make I am learning to use cooking techniques such as: chopping, slicing and mixing I am learning to follow safety and food hygiene procedures.</p> <p>Evaluate I am learning to evaluate my product identifying both strengths and areas for development. I am learning to consider the views of others, including the audience and purpose, whilst evaluating my product.</p>	<p>How would the highwayman travel to Bess in 2021? D.T. – Create a moving vehicle <i>Research, design, make and evaluate a range of materials to create a vehicle. Use cross curricular learning to programme the vehicle to move</i></p> <p>Background Research I am learning to investigate how technology has developed over time. I am learning about the impact of technological developments.</p> <p>Design I am learning to design my own vehicle using a specific design criterion. I am learning to use exploded diagrams</p> <p>Generate I am learning test different materials and assess their properties to decide on the most appropriate.</p> <p>Make I am learning to use a range of materials according to their functional properties and aesthetic qualities. I am learning to use computing to program, monitor and control my vehicle.</p> <p>Evaluate I am learning to investigate and analyse a range of products. I am learning to evaluate my work against my design criterion.</p>		<p>Can you build a bridge to link Southampton to the Isle of Wight? D.T. Building structures – bridges <i>Research, design and make a functional and aesthetic bridge to link Southampton and the Isle of Wight considering how they will strengthen, stiffen and reinforce their structure</i></p> <p>Background Research I am learning to investigate how different bridges are constructed.</p> <p>Design I am learning to design my own bridge using a specific design criterion. I am learning to use sketches and prototypes to inform my final design.</p> <p>Generate I am learning test different structures and materials to decide on the most suitable for my bridge.</p> <p>Make I am learning to use a range of materials according to their functional properties and aesthetic qualities. I am learning to use a variety of joining techniques to strengthen, stiffen and reinforce my bridge.</p> <p>Evaluate I am learning to understand how key individuals in design and technology have helped shape the world.</p>

Year 6 Project:	I'm a Survivor!		Keep Calm and Carry On		The Show Must Go On	
Skills:			<p>How can you feed a family on World War Two rations? Cooking and Nutrition D.T. – Cooking on Rations <i>Research, design, make & evaluate their own meal for their family using only ingredients available straight after World War Two, whilst helping them develop crucial life skills and enabling them to feed themselves and others affordably and well now and in later life.</i></p> <p>Background Research: I am learning to investigate the ethical implications of food that is reared, caught, or grown in the UK. I am learning to explain the foods that were available at the end of WW2.</p> <p>Design: I am learning to understand that recipes can be adapted to change the appearance, taste and aroma of a dish.</p> <p>Generate: I am learning to taste a variety of foods and discuss my thoughts with others. I am learning to collect information about food likes and dislikes to inform my plan.</p> <p>Make: I am learning to use cooking techniques such as: chopping, peeling, grating slicing, mixing, spreading, kneading and baking I am learning to follow safety and food hygiene procedures.</p> <p>Evaluate: I am learning to use my design criteria to evaluate my product.</p>		<p>D.T. – Theatre Mask (Shakespearean) <i>Research, design, make & evaluate own product, selecting a wider range of materials including construction materials and textiles, according to the functional properties and aesthetic qualities</i></p> <p>Background Research: I am learning to explain who made the product and how, identifying how environmentally friendly the materials are. I can evaluate the product on design, appearance and purpose.</p> <p>Design: I am learning to describe the audience and purpose of my product and identify design features that will appeal to them. I am learning to create a design for my product using an appropriate format.</p> <p>Generate: I am learning to share my ideas and give feedback on the effectiveness of other's ideas. I am learning to select suitable materials for my audience and purpose. I am learning to create pattern pieces and prototypes, evaluating them and using them to refine my final product.</p> <p>Make: I am learning to follow my design criteria. I am learning to measure, mark, cut and shape materials accurately.</p> <p>Evaluate: I am learning to use my design criteria to evaluate my product.</p>	<p>What is Paulton's next exciting ride? DT – Fairground Rides <i>Research, design, make and evaluate their own fairground ride through the use of a strong structure and the use of mechanical systems and electrical circuits.</i></p> <p>Background Research: I am learning to understand how fairground rides work and why they appeal to so many people.</p> <p>Design: I am learning to develop a design criterion for an innovative, functional, appealing product that is fit for purpose.</p> <p>Generate: I am learning to select the suitable materials for my audience and purpose. I am learning to create pattern pieces and prototypes, evaluating them and using them to refine my final product.</p> <p>Make: I am learning to understand and use mechanical systems in my products [for example, gears, pulleys, cams, levers and linkages] to overcome problems and support design ideas. I am learning to use finishing techniques that involve several steps.</p> <p>Evaluate: I am learning to look at the quality of the product and design and whether it is fit for its intended audience and purpose. I am learning to consider the views of others, including the intended user, whilst evaluating product.</p>