

Yearly Overview of DT

	EY	Y1	Y2	Y3	Y4	Y5	Y6
Autumn Term	<p>A variety of teacher and independent activities on these themes: What is environment? Different materials Recycling and plastic</p> <p>Use a variety of construction equipment to build enclosures and create spaces</p> <p>Join construction pieces together to build and balance</p> <p>Use simple tools and techniques competently and appropriately</p> <p>Create simple representations of events, people and objects</p>	<p>Textiles: Christmas bunting</p> <p><u>Designing</u> Design functional and appealing products, drawing ideas from own experiences and other sources such as reading</p> <p>Generate, develop, model and communicate ideas through talking, drawing and, where appropriate, information technology.</p> <p><u>Making</u> Explore a range of tools and equipment for practical tasks and select from these</p> <p>Explore a range of materials and components and select from these</p> <p>Use templates Join and combine materials</p> <p>Use simple fixing methods</p> <p>Use finishing techniques</p> <p><u>Evaluating</u> Talk about their products and make simple judgements</p>	<p>Textiles: sock puppets</p> <p><u>Designing</u> Design functional and appealing products, drawing ideas from own experiences and other sources such as reading</p> <p>Generate, develop, model and communicate ideas</p> <p>Explore a range of through talking, drawing, templates, mock ups and, where appropriate, information technology.</p> <p>State the purpose of the design and the intended user.</p> <p><u>Making</u> Explore a range of tools and equipment for practical tasks and select from these, explaining choices.</p> <p>Explore a range of materials and components and select from these according to their characteristics.</p> <p>Use and make templates</p> <p>Measure, mark out, cut and shape materials</p>	<p>Prepare savoury dishes based on Stone Age food</p> <p><u>Cooking and nutrition</u> Understand and apply the principles of a healthy and varied diet, based on the "eat well plate"</p> <p>Know that to be active and healthy, food is needed to provide energy for the body</p> <p>Prepare and cook a variety of predominantly savoury dishes, safely and hygienically, using a range of preparation techniques, including the use of a heat source where appropriate</p> <p>Understand seasonality, and know where and how some ingredients are grown, reared, caught and processed</p> <p>Learn how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking</p> <p>Measure using grams</p>	<p>Prepare savoury dishes based on Greek food</p> <p><u>Cooking and nutrition</u> Understand and apply the principles of a healthy and varied diet, based on the "eat well plate"</p> <p>Know that to be active and healthy, food is needed to provide energy for the body</p> <p>Prepare and cook a variety of predominantly savoury dishes, safely and hygienically, using a range of preparation techniques, including the use of a heat source where appropriate</p> <p>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</p> <p>Learn how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading</p>	<p>Create a Viking long ship Sewing (space related)</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p>Developing a simple design specification to guide their thinking.</p> <p>Generating innovative ideas, drawing on research and existing products</p> <p>Using discussion, annotated sketches, cross-sectional and exploded diagrams to generate, develop, model and communicate ideas</p> <p><u>Making</u> Selecting tools and equipment suitable for the task</p> <p>Producing detailed lists of these and explaining their choice in relation to the skills and techniques they will be using</p> <p>Explaining their choice of materials and</p>	<p>Design and make a festive Christmas light, using scientific skills</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p><u>Evaluating</u> Investigate existing products for design, construction and purpose</p> <p><u>Designing</u> Developing a simple design specification to guide their thinking</p> <p>Generating innovative ideas, drawing on research and existing products</p> <p>Using discussion, annotated sketches, cross-sectional and exploded diagrams to generate, develop, model and communicate ideas</p> <p><u>Making</u> Selecting tools, and equipment suitable for the task, producing detailed lists of these and explaining their choice in relation to</p>

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			<p>Join and combine materials</p> <p>Use simple fixing methods</p> <p>Use finishing techniques</p> <p><u>Evaluating</u> Talk about their products and make simple judgements</p> <p>Suggest how their products could be improved</p>	<p>Follow a recipe</p> <p><u>Technical Knowledge</u> Know that food ingredients can be fresh, pre-cooked and processed</p>	<p>and baking</p> <p>Measure using grams</p> <p>Follow a recipe</p>	<p>components according to functional properties and aesthetic qualities</p> <p>Ordering the main stages of making</p> <p>Following procedures for safety</p> <p>Accurately measuring to nearest mm,</p> <p>Accurately marking out, cutting and shaping materials and components</p> <p>Accurately assembling, joining and combining materials and components</p> <p>Accurately applying a range of finishing techniques</p> <p>Demonstrate resourcefulness by making refinements</p> <p><u>Technical Knowledge</u> Applying their knowledge of how to strengthen, stiffen and reinforce more complex structures</p> <p><u>Evaluating</u> Evaluating ideas and product by comparing to the original design specification</p>	<p>the skills and techniques they will be using</p> <p>Explaining their choice of materials and components according to functional properties and aesthetic qualities</p> <p>Using a range of construction materials and electrical components</p> <p>Accurately measuring to nearest mm,</p> <p>Accurately marking out, cutting and shaping materials and components</p> <p>Accurately assembling, joining and combining components</p> <p>Accurately applying a range of finishing techniques</p> <p><u>Technical Knowledge</u> Understand how more complex electrical circuits and components can be used to create functional products</p> <p>Knowing that electric systems have an input and an output</p>
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Spring Term	<p>A variety of teacher and independent activities on these themes: Homes, past and present, in our locality and in other places</p> <p>Use a variety of construction equipment to build enclosures and create spaces</p> <p>Join construction pieces together to build and balance</p> <p>Use simple tools and techniques competently and appropriately</p> <p>Create simple representations of events, people and objects</p>	<p>Design and prepare a healthy fruit kebab</p> <p><u>Cooking and nutrition</u> Use the basic principles of a healthy and varied diet to prepare dishes: name and sort foods into the five groups of the 'eat well' plate</p> <p>Know that everyone should eat at least five portions of fruit and vegetables every day</p> <p>Understand where food comes from</p> <p>Use appropriate equipment to weigh and measure ingredients</p> <p>Prepare simple dishes safely and hygienically, without using a heat source</p> <p>Use techniques such as cutting</p> <p><u>Technical Knowledge</u> Understand that food</p>	<p>Design and make a model garden</p> <p><u>Designing</u> Design functional and appealing products, drawing ideas from own experiences and other sources such as reading</p> <p><u>Evaluating</u> Explore and evaluate existing products or ideas</p> <p>Talk about their design ideas and what is being made</p> <p><u>Designing</u> Generate, develop, model and communicate ideas through talking, drawing, templates, mock ups, and, where appropriate, information technology</p> <p><u>Making</u> Select from and use a range of tools to perform practical tasks and from a range of materials and</p>	<p>Control: construct an Egyptian themed book with moving parts and a surprise on every page</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p><u>Evaluating</u> Investigating and exploring a range of existing products, including methods of construction and how well they work</p> <p><u>Designing</u> Gathering information about the needs and wants of individuals or groups</p> <p>Sharing and clarifying ideas through discussion</p> <p>Modelling ideas through prototypes and pattern pieces</p>	<p>Design and create a decorative clay face (link RE)</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p><u>Evaluating</u> Investigating and exploring existing products including construction methods and how well they have been made</p> <p><u>Designing</u> Developing design criteria and use these to inform ideas</p> <p>Modelling ideas through sketches Sharing and clarifying ideas through discussion</p> <p><u>Making</u> Selecting tools and equipment suitable for the task</p>	<p>Design and make dog treat packaging</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p><u>Evaluating</u> Investigating how much products cost to make</p> <p><u>Designing</u> Carrying out research, using questionnaires identifying the needs, wants, preferences and values of particular individuals and groups</p> <p>Developing a simple design specification to guide their thinking. Generating innovative ideas, drawing on research.</p> <p>Making design decisions, taking account of constraints</p>	<p>Design and build a rainforest shelter using geographical skills</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p>Identifying the needs, wants, preferences and values of particular individuals and groups</p> <p>Making design decisions, taking account of constraints such as time and resources</p> <p><u>Making</u> Selecting materials suitable for the task and explaining their choices</p> <p>Accurately measuring to nearest mm, marking out, cutting and shaping materials</p>

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		<p>ingredients should be combined according to their sensory characteristics</p>	<p>components</p> <p>Measure, mark out and shape materials</p> <p>Use simple fixing materials</p> <p>Use finishing techniques, including those from art and design</p> <p><u>Evaluating</u> Evaluate products and components and say how they could be improved</p>	<p><u>Making</u> Selecting tools and equipment suitable for the task</p> <p>Measuring, marking out, cutting and shaping materials and components with some accuracy</p> <p>Assembling, joining and combining materials and components with some accuracy</p> <p>Applying a range of finishing techniques, including those from art and design, with some accuracy</p> <p><u>Technical Knowledge</u> Knowing how to use mechanical structures in products</p> <p>Understanding how levers and linkages create movement</p> <p>Identifying the strengths and weaknesses of their products</p> <p>Considering the views of others, including intended users, to improve their work</p>	<p>Ordering the main stages of making</p> <p>Measuring, marking, cutting, joining and shaping materials with some accuracy</p> <p><u>Evaluating</u> Identifying strengths and weaknesses of their ideas and products</p> <p>Using design criteria to evaluate completed products</p>	<p>such as time, resources and cost.</p> <p>Recognise when products have to fulfil conflicting requirements</p> <p><u>Making</u> Selecting, from a wide range, tools and equipment to perform practical tasks and explaining choices</p> <p>Accurately measuring to the nearest mm, marking out, cutting and shaping materials and components</p> <p>Applying a range of finishing techniques accurately</p> <p>Using techniques that involve a number of steps</p> <p><u>Technical Knowledge</u> Know that materials have both functional properties and aesthetic qualities</p> <p>Making refinements Evaluating their ideas and products by identifying strengths and weaknesses</p> <p>Considering the views of others</p>	<p><u>Technical Knowledge</u> Knowing how to reinforce/strengthen a 3D framework</p> <p>Knowing that materials can be mixed and combined to create more useful characteristics</p> <p>Knowing that a 3D textile product can be made from a combination of fabric shapes</p> <p><u>Evaluating</u> Investigating how sustainable the materials in products are</p> <p>Critically evaluating the quality of the design, manufacture and fitness for purpose of products as they are designed and made</p> <p>Comparing ideas and products to their original design specification</p>
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<p>Summer Term</p>	<p>A variety of teacher and independent activities on these themes: Sea creatures Habitats Food chains Fantasy</p> <p>Use a variety of construction equipment to build enclosures and create spaces</p> <p>Join construction pieces together to build and balance</p> <p>Use simple tools and techniques competently and appropriately</p> <p>Create simple representations of events, people and objects</p>	<p>Design and make a model light house with a working light</p> <p><u>Designing</u> Design functional and appealing products, drawing ideas from own experiences and other sources such as reading</p> <p><u>Evaluating</u> Talk about design ideas and what is being made</p> <p><u>Designing</u> Explore materials and make templates and mock ups</p> <p><u>Making</u> Select from and use a range of materials and components according to characteristics</p> <p>Select from a range of tools and equipment, explaining choices</p> <p>Use templates Measure, mark out, cut, shape and join materials</p> <p>Use simple fixing materials</p> <p><u>Technical Knowledge</u> Understand about the simple working characteristics of materials and components</p>	<p>Mechanism: design and build a moving vehicle with wheels</p> <p><u>Designing</u> Design functional and appealing products, drawing ideas from own experiences and other sources such as reading</p> <p><u>Evaluating</u> Investigate existing products, who they are for, how they are made and the materials used</p> <p><u>Designing</u> State the purpose of the design and the intended user</p> <p>Explore materials and make templates and mock ups</p> <p><u>Making</u> Select from and use a range of materials and components according to characteristics</p> <p>Select from a range of tools and equipment, explaining choices</p> <p>Use and make own templates</p> <p>Measure, mark out, cut, shape and join materials Use simple fixing materials</p> <p><u>Technical Knowledge</u></p>	<p>To design and create a decorative clay sculpture</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p><u>Evaluating</u> Investigating the design and materials of existing products</p> <p><u>Designing</u> Researching designs Sharing and clarifying ideas through discussion</p> <p>Modelling ideas through sketches</p> <p><u>Making</u> Selecting tools and equipment suitable for the task</p> <p>Ordering the main stages of making</p> <p>Measuring, marking, cutting, joining and shaping materials with some accuracy</p> <p><u>Evaluating</u> Considering the views of others to improve their work</p> <p>Identifying strengths and weaknesses of completed product</p>	<p>Design and make a musical instrument based on an Anglo-Saxon lyre</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p><u>Evaluating</u> Investigating where, when, by whom and from what the original products were made</p> <p><u>Designing</u> Developing own design criteria to inform ideas</p> <p><u>Making</u> Modelling ideas using prototypes and pattern pieces</p> <p>Selecting tools, equipment, materials and components suitable for the task and explaining these choices</p> <p>Measuring, marking out, cutting and shaping materials and components with some accuracy</p> <p><u>Technical Knowledge</u> Understanding how to strengthen, stiffen and reinforce more complex structures</p>	<p>Prepare savoury dishes based on Mayan food</p> <p><u>Cooking and nutrition</u> Understand and apply the principles of a healthy and varied diet and know that different foods contain different substances - nutrients, water and fibre - that are needed for health</p> <p>Prepare and cook a variety of predominantly savoury dishes, safely and hygienically, using a range of preparation techniques, including the use of a heat source where appropriate</p> <p>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed</p> <p>Use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking</p> <p>Measure accurately</p> <p>Follow a recipe and work out ratios</p> <p>Know that recipes can</p>	<p>Mechanism: design and build a moving city scene</p> <p><u>Designing</u> Use research to develop designs and produce products that are fit for purpose by:</p> <p><u>Evaluating</u> Investigating existing products to see what construction methods have been used and how well they work</p> <p><u>Designing</u> Developing a simple design specification to guide thinking</p> <p>Developing prototypes Generating innovative ideas, drawing on research</p> <p>Developing prototypes</p> <p><u>Making</u> Explaining the choice of materials and components according to functional properties and aesthetic qualities</p> <p>Accurately measuring to nearest mm, marking out, cutting and shaping materials</p> <p>Using techniques that involve a number of steps</p>
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	<p>Understand how freestanding structures can be made stronger and more stable</p> <p><u>Evaluating</u> Make simple judgements about product and ideas against design criteria</p>	<p>Understand about the simple working characteristics of materials and components</p> <p>Understand about the movement of simple mechanisms</p> <p>Know the correct technical vocabulary for the project</p> <p><u>Evaluating</u> Make simple judgements about product and ideas against design criteria</p> <p>Suggest how product could be improved</p>		<p><u>Evaluating</u> Identifying the strengths and weaknesses of their ideas and product</p> <p>Considering the views of others to improve work</p>	<p>be adapted to change the appearance, taste, texture and aroma</p> <p>Understand the need for correct storage</p> <p><u>Technical Knowledge</u> Know that a recipe can be adapted by adding or substituting one or more ingredients</p>	<p>Demonstrating resourcefulness and making refinements</p> <p><u>Technical Knowledge</u> Understanding how cams, pulleys and gears create movement</p> <p>Understanding how to program a computer to control movement</p> <p>Know how to strengthen a 3D framework</p> <p><u>Evaluating</u> Critically evaluating the quality of design, manufacture and fitness for purpose during these processes</p>
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Many skills are constantly repeated in different projects and will be improved and refined by pupils as they tackle different activities