



Design and Technology Curriculum

Long Term Plan						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Structures Skill: explore what is meant by 'waterproof', 'floating' and 'sinking'. Project: make a boat.</p> <p>Cooking and nutrition Skill: know the different uses of fruit and vegetables. Project: make a vegetable soup.</p> <p>Structures Skill: making permanent and temporary joins. Project: junk modelling.</p>	<p>Mechanisms Skill: make an object move using sliders. Project: making a moving story book.</p> <p>Textiles Skill: joining fabrics together. Project: making a puppet</p> <p>Mechanisms Skill: making an object move using wheels and axles. Project: build a moving vehicle.</p>	<p>Cooking and nutrition Skill: understand what makes a balanced diet. Project: make a healthy wrap.</p> <p>Structures Skill: create a stable structure. Project: make Baby Bear's chair.</p> <p>Mechanisms Skill: make an object move using levers, linkages and pivots. Project: make a moving monster.</p>	<p>Textiles Skill: create a 3D product using cross stitch and applique. Project: make a cushion.</p> <p>Mechanical Systems Skill: make an object move using pneumatics. Project: Making a pneumatic toy.</p> <p>Cooking and nutrition Skill: understand fruits and vegetables grow in different places and in different seasons. Project: make a</p>	<p>Structures Skill: make a free-standing, strong and stable structure. Project: make a pavilion.</p> <p>Electrical Systems Skill: make a functional electrical circuit including a switch. Project: make a torch.</p> <p>Digital World Skill: write a program and use CAD to design a product. Project: Make a mindful moments timer.</p>	<p>Structures Skill: make a strong structure and be able to reinforce it. Project: make a truss bridge.</p> <p>Mechanical Systems Skill: use inputs and outputs to create mechanical movements. Project: make a pop-up book.</p> <p>Textiles Skill: create a 3D product using secure and evenly spaced blanket stitches. Project: make a stuffed toy.</p>	<p>Digital World Skill: write a design brief, create a product using programming and CAD software to meet brief. Project: Make a navigational tool.</p> <p>Electrical Systems Skill: make a functional electrical system that is fit for purpose. Project: Steady hand game.</p> <p>Cooking and nutrition Skill: write a recipe. Project: create a three course meal.</p>

<p>Textiles Skill: making an object move using wheels and axles. Project. build a moving vehicle.</p>			vegetable tart.			
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NATIONAL CURRICULUM PROGRAMMES OF STUDY						
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<ul style="list-style-type: none"> Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images. Manipulates materials to achieve a planned effect. Constructs with a purpose in mind, using a variety of resources. Uses simple tools and techniques competently and appropriately. Selects appropriate resources and 	<p>Design</p> <ul style="list-style-type: none"> design purposeful, functional, appealing products for themselves and other users based on design criteria. generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology. <p>Make</p> <ul style="list-style-type: none"> select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics 		<p>Design</p> <ul style="list-style-type: none"> 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>Make</p> <ul style="list-style-type: none"> select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately 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 <p>Evaluate</p> <ul style="list-style-type: none"> 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 understand how key events and individuals in design and technology have helped shape the world <p>Technical knowledge</p>			

<p>adapts work where necessary.</p> <ul style="list-style-type: none"> • Selects tools and techniques needed to shape, assemble and join materials they are using. 	<p>Evaluate</p> <ul style="list-style-type: none"> • explore and evaluate a range of existing products • evaluate their ideas and products against design criteria <p>Technical knowledge</p> <ul style="list-style-type: none"> • build structures, exploring how they can be made stronger, stiffer and more stable • explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products <p>Cooking and nutrition</p> <ul style="list-style-type: none"> • Use basic principles of a healthy and varied diet to prepare dishes • Understand where food comes from. 	<ul style="list-style-type: none"> • 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] • 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 <p>Cooking and nutrition</p> <ul style="list-style-type: none"> • 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.
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