



Old Dalby C of E Primary School

Subject Progression

Design and Technology

EYFS

<ul style="list-style-type: none"> - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. - Use what they have learnt about media and materials in original ways, thinking about uses and purposes. - Represent their own ideas, thoughts and feelings through design and technology and art. 	<p>Key Vocabulary</p> <p>Tools Technique Texture Collage Sketch Blend Paint Brush Glue Chalk Clay Push Twist</p>
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Year 1

<ul style="list-style-type: none"> - Design purposeful, appealing products for themselves based on a set of design criteria - Generate and communicate their ideas through a variety of means, including drawings and models - With support, select from and use a range of tools and equipment to perform practical tasks eg cutting, shaping, joining and finishing - With support, select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics - Explore a range of existing products - With support, build structures, exploring how they can be made stronger, stiffer and more stable - Explore mechanisms - With support, use the basic principles of a healthy and varied diet to prepare dishes - Understand where food comes from 	<p>Key Vocabulary</p> <p>Design Product Function Tools Criteria Evaluate Mechanism Cutting Shaping Joining Finishing Structure Construction Diet Healthy</p>
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Year 2

<ul style="list-style-type: none"> - Design purposeful, functional, appealing products for themselves and others users based on a set of design criteria - Generate, develop model and communicate their ideas through talking, drawing, templates, mock-ups and where appropriate ICT - Select from and use a range of tools and equipment to perform practical tasks eg 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 - Explore and evaluate a range of products 	<p>Key Vocabulary</p> <p>Criteria Evaluate Functional Characteristic Strengthen Lever Axle Slider Wheel Pulley</p>
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<ul style="list-style-type: none"> - Evaluate their ideas and products against design criteria and suggest improvements - Build structures, exploring how they can be made stronger, stiffer and more stable - Explore and use mechanisms in their products - Use the basic principles of a healthy and varied diet to prepare dishes - Understand where food comes from 	Template Stability Ingredients Balanced diet Varied
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Year 3

<ul style="list-style-type: none"> - Begin to use research to inform designs of functional and appealing products that meet a set of criteria - Communicate their design ideas through discussion, models and sketches with increasing accuracy - Continue to select from an increasing range of tools and equipment to perform practical tasks eg cutting, shaping, joining and finishing - Continue to select materials and components based on their functional characteristics and aesthetic qualities - Investigate and analyse a range of existing products - Evaluate their own products against the design criteria and suggest improvements, beginning to listen to the opinions of others - Begin to identify key events in and individuals in design and technology who have shaped the world - Understand and use electrical systems in their products - Understand and apply the principle of a healthy varied diet - Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques 	Key Vocabulary Research Function Brief Model Component Material Equipment Evaluate Cut Shape Join Finish Appearance Advantage Disadvantage Influence Healthy Technique Claw Bridge Cook Savoury
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Year 4

<ul style="list-style-type: none"> - Use research to inform design criteria for functional products that are fit for purpose - Continue to communicate their design ideas through discussion, models and sketches with increasing accuracy - Continue to select from an increasing range of tools and equipment to perform practical tasks eg cutting, shaping, joining and finishing - With increasing discernment, select materials and components based on their functional characteristics and aesthetic qualities - Investigate and analyse a range of existing products and begin to relate to their own designs - Evaluate their own products against the design criteria and suggest improvements, listen to the opinions of others and begin to offer opinions on theirs 	Key Vocabulary Criteria Model Research Justify Characteristics Appearance Compare Evaluation Conclude Reinforce Mechanism Reference
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<ul style="list-style-type: none"> - Continue to identify key events in and individuals in design and technology who have shaped the world - Use their own experiences to apply their understanding of how to strengthen, stiffen and reinforce increasingly complex structures - Use mechanisms in their products 	Improve
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Year 5

<ul style="list-style-type: none"> - Use research to inform increasingly specific design criteria for functional and appealing products for a range of audiences - Continue to communicate their design ideas through discussion, models, sketches and diagrams with increasing accuracy - Select from an increasing range of tools and equipment to perform practical tasks eg cutting, shaping, joining and finishing with increasing standard of accuracy and finish - Select materials and components based on their functional characteristics and aesthetic qualities, begin to justify choices based on research and experience - Investigate and analyse a range of existing products and relate to their own designs - Evaluate their own products against the design criteria and suggest improvements, listen to the opinions of others and offer opinions on theirs - Begin to identify key events in and individuals in design and technology who have shaped the world and their impact on their own lives - Develop their understanding of mechanisms and begin to make informed decisions about using them in their products - Begin to apply their understanding computing to program, monitor and control their products 	Key Vocabulary Criteria Design brief Draft Mock-up Functional Aesthetic Analyse Evaluation Improvements Influential Mechanism Monitor Control Innovate Audience
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Year 6

<ul style="list-style-type: none"> - Research and develop criteria for the design of innovative, functional appealing products aimed at a range of particular individuals or groups - Continue to communicate their design ideas through discussion, models, sketches and diagrams with increasing accuracy - Confidently select from an increasing range of tools and equipment to perform practical tasks eg cutting, shaping, joining and finishing with a high standard of accuracy and finish - Select materials and components based on their functional characteristics and aesthetic qualities, relate decisions to research or experience - Investigate and analyse a range of existing products and make decisions about their own designs based on these 	Key Vocabulary Develop Innovative Audience Prototype Justification Combine Comparative Contrasting Refine Analysis Influential Healthy Bridge method Claw method
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<ul style="list-style-type: none">- Evaluate their own products against the design criteria and suggest improvements, listen to the opinions of others and offer opinions on theirs- Begin to identify key events in and individuals in design and technology who have shaped the world and their impact on their own lives and the world as a whole- Apply their understanding computing to program, monitor and control their products- Understand and apply the principle of a healthy varied diet- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques	Technique Savoury
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