

A Westdale Designer

Design and Technology Knowledge Progression

Year 1

National Curriculum		
<p>Design purposeful, functional, appealing products for themselves and other users based on design criteria.</p> <p>Generate, develop, model, and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining, and finishing]</p> <p>Select from and use a wide range of materials and components, including construction materials, textiles, and ingredients, according to their characteristics.</p> <p>Explore and evaluate a range of existing products.</p> <p>Evaluate their ideas and products against design criteria.</p> <p>Build structures, exploring how they can be made stronger, stiffer, and more stable.</p> <p>Explore and use mechanisms [for example, levers, sliders, wheels, and axles], in their products.</p> <p>Use the basic principles of a healthy and varied diet to prepare dishes.</p> <p>Understand where food comes from.</p>		
Key End Points for EYFS (ELG)		What I will know by the end of this learning
<p>Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</p> <p>Share their creations, explaining the process they have used.</p> <p>Make use of props and materials when role playing characters in narratives and stories.</p>	Generating ideas (Design)	<p>I know the uses, purpose, and function of a product I am designing.</p> <p>I know designs can be expressed through talk and through drawings with simple labels.</p>
	Creating and Exploring (Make)	<p>I know which tools and equipment to choose from a selection and can express reasons for choices.</p> <p>I know how to use selected tools and equipment safely and competently.</p> <p>I know finishing techniques to improve the aesthetic of products.</p>
	Evaluate	<p>I know how to make simple judgements about products I have made and existing products against simple design criteria.</p> <p>Designers explore an existing product and describe its problems and positives.</p> <p>I know how to test my design and suggest improvements.</p> <p>I know I can use ideas from other people/designers and use it in my designs.</p>
	Technical Knowledge	<p>Structures</p> <p>I know the names of materials and their simple working characteristics.</p> <p>I know a bridge can be made strong using different materials and techniques (refer to paper skills).</p> <p>I know that materials can be cut, torn, curled and folded to create effects.</p> <p>Mechanisms</p> <p>I know that wheels attached to axles make a vehicle move.</p> <p>Textiles</p> <p>I know that fabrics can be joined by different methods such as PVA glue and staples.</p> <p>I know 3-D textiles product can be assembled from two identical fabric shapes (e.g. rectangle for a bag).</p>

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		<p>Cooking and Nutrition</p> <p>I know that all food comes from plants and animals and that everyone should eat at least 5 pieces of fruit and vegetables each day.</p> <p>I know how to prepare dishes safely and hygienically, without a heat source.</p> <p>I know how to use techniques such as cutting (stampers, knives) and grating.</p>
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Year 2

National Curriculum		
<p>Design purposeful, functional, appealing products for themselves and other users based on design criteria.</p> <p>Generate, develop, model, and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology.</p> <p>Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining, and finishing].</p> <p>Select from and use a wide range of materials and components, including construction materials, textiles, and ingredients, according to their characteristics.</p> <p>Explore and evaluate a range of existing products.</p> <p>Evaluate their ideas and products against design criteria.</p> <p>Build structures, exploring how they can be made stronger, stiffer, and more stable.</p> <p>Explore and use mechanisms [for example, levers, sliders, wheels, and axles], in their products.</p> <p>Use the basic principles of a healthy and varied diet to prepare dishes.</p> <p>Understand where food comes from.</p>		
What should I already know?		What I will know by the end of this learning
<p>I know the uses, purpose, and function of a product I am designing.</p> <p>I know designs can be expressed through talk and through drawings with simple labels.</p> <p>I know which tools and equipment to choose from a selection and can express reasons for choices.</p> <p>I know how to use selected tools and equipment safely and competently.</p> <p>I know finishing techniques to improve the aesthetic of products.</p>	<p>Generating ideas (Design)</p>	<p>I know how I will make products suitable for the user.</p> <p>I know how to draw on personal experience of similar products in the design process.</p> <p>I know how to develop design criteria to help develop my ideas.</p> <p>I know ideas can be modelled through using construction kits, mock-ups and templates.</p>
	<p>Creating and Exploring (Make)</p>	<p>I know how to measure, mark out, cut and shape materials and components.</p> <p>I know finishing techniques improve the aesthetic of products.</p>
	<p>Evaluate</p> <p>Evaluate and analyse creative works using the language of art,</p>	<p>Own ideas and Projects</p> <p>I know how to make simple judgements about products I have made against simple design criteria.</p> <p>I know to suggest how to improve my product.</p> <p>Existing Products</p>

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<p>I know how to make simple judgements about products I have made and existing products against simple design criteria. Designers explore an existing product and describe its problems and positives.</p>	<p>craft and design.</p>	<p>I know what I like and dislike about existing products and use the viewpoints of others, to inform my own products. I know how to explore existing products and reflect on the user, purpose, function, and aesthetic.</p>
<p>I know how to test my design and suggest improvements. I know I can use ideas from other people/designers and use it in my designs.</p> <p>Structures I know the names of materials and their simple working characteristics. I know a bridge can be made strong using different materials and techniques (refer to paper skills). I know that materials can be cut, torn, curled and folded to create effects.</p> <p>Mechanisms I know that wheels attached to axles make a vehicle move.</p> <p>Textiles I know that fabrics can be joined by different methods such as PVA glue and staples. I know 3-D textiles product can be assembled from two identical fabric shapes (e.g. rectangle for a bag).</p> <p>Cooking and Nutrition I know that all food comes from plants and animals and that everyone should eat at least 5 pieces of fruit and vegetables each day. I know how to prepare dishes safely and hygienically, without a heat source.</p>	<p>Technical Knowledge</p>	<p>Structures I know properties of materials and how they are suitable or unsuitable for a range of purposes. I know that the shape of the structure affects its strength and that structures with wide, flat bases are most stable.</p> <p>Mechanisms I know how to identify sliders, levers and linkages, and that they are mechanisms that can make things move. I know that a lever is something that turns on a pivot.</p> <p>Textiles I know that fabrics can be joined by a running stitch.</p> <p>Cooking and Nutrition I know that food must be farmed, grown elsewhere (home) or caught. I know how to name and sort food into the five groups in the 'Eatwell' plate.</p>

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I know how to use techniques such as cutting (stampers, knives) and grating.			
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