



Design and Technology - Skills to be met

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>Background Research - Lesson 1</p> <p><u>Exploring context and existing products</u></p>	<p>Understand what a product is and who it is for.</p> <p>Understand how a product works and how it is used.</p> <p>Identify where you might find this product.</p>	<p>Understand what a product is and who it is for.</p> <p>Understand how a product works and how it is used.</p> <p>Identify where you might find this product.</p> <p>Identify the materials used to make the product.</p> <p>Express an opinion about the product</p>	<p>Identify who made the product, when it was made and what its purpose is.</p> <p>Identify what the product has been made from.</p> <p>Evaluate the product on design and use</p> <p>Brain Builders: Research facts about famous inventors/ chefs / designers etc linked to product</p>	<p>Identify who made the product, when it was made and what its purpose is.</p> <p>Identify what the product has been made from.</p> <p>Evaluate the product on design and use</p> <p>Brain Builders: Research facts about famous inventors/ chefs / designers etc linked to product</p>	<p>Identify who made the product, when it was made and what its purpose is.</p> <p>Identify what the product has been made from and how environmentally friendly the materials are.</p> <p>Evaluate the product on design, appearance and use.</p> <p>Identify the cost to make the product.</p> <p>Brain Builders: Research facts about famous inventors/ chefs / designers etc linked to product</p>	<p>Identify who made the product, when it was made and what its purpose is.</p> <p>Identify what the product has been made from and how environmentally friendly the materials are.</p> <p>Evaluate the product on design, appearance and use.</p> <p>Identify the cost to make the product and whether it has any other purposes eg. Leading innovation of the time, trend setting.</p> <p>Brain Builders: Research facts about famous inventors/ chefs / designers etc linked to product</p>

<p>Design Criteria – Lesson 2</p> <p><u>Understanding their intended users and their own product</u></p>	<p>Explain what product they will be designing and making.</p> <p>Explain who their product will be used by.</p> <p>Describe what their product will be used for.</p>	<p>Use own experiences and existing products to develop ideas.</p> <p>Explain what product they will be designing and making.</p> <p>Explain who their product will be used by.</p> <p>Describe what their product will be used for and how it will work.</p> <p>Explain why their product is suitable for the intended User.</p>	<p>Brain Builders: Understand and gather information about what a particular group or people want from a product.</p> <p>Describe the purpose of their product and how it will work Identify design features that will appeal to intended users.</p> <p>Explain how parts of their product works.</p> <p>Generate realistic ideas that meet needs of user.</p>	<p>Brain Builders: Understand and gather information about what a particular group or people want from a product.</p> <p>Describe the purpose of their product.</p> <p>Identify design features that will appeal to intended users.</p> <p>Explain how parts of their product works.</p> <p>Develop their own design criteria and use for planning ideas.</p> <p>Generate realistic ideas that meet needs of user and take into account availability of resources.</p>	<p>Brain Builders: Understand and gather information about what a particular group or people want from a product, using questionnaires, surveys etc.</p> <p>Describe the purpose of their product.</p> <p>Identify design features that will appeal to intended users.</p> <p>Explain how parts of their product will work.</p> <p>Develop their own design criteria and use for planning ideas.</p> <p>Generate innovative ideas that meet needs of user and take into account availability of resources.</p>	<p>Brain Builders: Understand and gather information about what a particular group or people want from a product, using questionnaires, surveys etc.</p> <p>Describe the purpose of their product.</p> <p>Identify design features that will appeal to intended users.</p> <p>Explain how parts of their product will work.</p> <p>Create a design description for their product.</p> <p>Highlight the impact of time, resources and cost within their design ideas.</p> <p>Generate innovative ideas that meet needs of user.</p>
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<p>Planning – Lesson 3</p> <p><u>Communicating ideas and creating prototypes for product</u></p>	<p>Discuss what their steps for making could be.</p> <p>Represent ideas through talking and drawing.</p>	<p>Discuss what their steps for making could be.</p> <p>Represent ideas through talking, drawing and computing - (where appropriate).</p> <p>Choose materials to use based on suitability of their properties.</p> <p>Create templates/pattern pieces and explore materials whilst developing ideas.</p>	<p>Share and discuss ideas with others.</p> <p>Order the main stages of making.</p> <p>Choose materials to use based on suitability of their properties.</p> <p>Represent ideas in diagrams, annotated sketches and computer based programmes (where appropriate).</p> <p>Create pattern pieces and prototypes.</p>	<p>Share and discuss ideas with others.</p> <p>Order the main stages of making.</p> <p>Choose materials to use based on suitability of their properties.</p> <p>Represent ideas in diagrams, annotated sketches and computer based programmes (where appropriate).</p> <p>Create pattern pieces and prototypes.</p>	<p>Share and discuss ideas with others.</p> <p>Record a step by step plan for making Produce lists for the tools, equipment and materials they will be using.</p> <p>Choose materials to use based on suitability of their properties and aesthetic qualities.</p> <p>Represent ideas in diagrams, annotated sketches and computer based programmes (where appropriate).</p> <p>Create pattern pieces and Prototypes.</p>	<p>Share and discuss ideas with others.</p> <p>Record a step by step plan for making Produce lists for the tools, equipment and materials they will be using.</p> <p>Choose materials to use based on suitability of their properties and aesthetic qualities.</p> <p>Represent ideas in diagrams, annotated sketches and computer based programmes (where appropriate).</p> <p>Create pattern pieces and Prototypes</p>
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<p>Making - Lesson 4-5</p> <p><u>Selecting the tools and applying the practical skills and techniques</u></p>	<p><i>Across KS1: Use materials - construction materials and kits, textiles, food and mechanical components</i></p> <p>Choose suitable tools for making.</p> <p>Follow safety and food hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components.</p> <p>Join, assemble and combine materials and components.</p>	<p><i>Across KS1: Use materials - construction materials and kits, textiles, food and mechanical components</i></p> <p>Choose suitable tools for making whilst explaining why they should be used.</p> <p>Follow safety and food hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components.</p> <p>Join, assemble and combine materials and components. Use finishing techniques, including skills learnt in Art</p>	<p><i>Across KS2: Use materials - construction materials and kits, textiles, food, mechanical and electrical components</i></p> <p>Choose suitable tools for making whilst explaining why they should be used.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and food hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components with some accuracy.</p> <p>Join, assemble and combine materials and components with some accuracy.</p> <p>Use finishing techniques, including skills learnt in Art with some accuracy.</p>	<p><i>Across KS2: Use materials - construction materials and kits, textiles, food, mechanical and electrical components</i></p> <p>Choose suitable tools for making whilst explaining why they should be used.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and food hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components with most accuracy.</p> <p>Join, assemble and combine materials and components with some accuracy.</p> <p>Use finishing techniques, including skills learnt in Art with some accuracy.</p>	<p><i>Across KS2: Use materials - construction materials and kits, textiles, food, mechanical and electrical components</i></p> <p>Choose suitable tools for making whilst explaining why they should be used.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and food hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components accurately.</p> <p>Join, assemble and combine materials and components accurately.</p> <p>Demonstrate problem solving skills when encountering a mistake or practical problem.</p> <p>Use finishing techniques, including skills learnt in Art accurately.</p>	<p><i>Across KS2: Use materials - construction materials and kits, textiles, food, mechanical and electrical components</i></p> <p>Choose suitable tools for making whilst explaining why they should be used.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and food hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components accurately.</p> <p>Join, assemble and combine materials and components accurately.</p> <p>Demonstrate problem solving skills when encountering a mistake or practical problem.</p> <p>Use finishing techniques that involve a number of steps, including skills learnt in Art accurately.</p>
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<p>Evaluation – Lesson 6</p> <p><u>Referring to planning and initial ideas in evaluating their product</u></p>	<p>Talk about their design ideas and what they have made.</p> <p>Make simple judgements of how the product met their design ideas.</p>	<p>Talk about their design ideas and what they have made.</p> <p>Make simple judgements of how the product met their design ideas.</p> <p>Suggest how their product could be improved.</p>	<p>Use design criteria to evaluate product - identifying both strengths and areas for development.</p> <p>Consider the views of others, including intended user, whilst evaluating product.</p>	<p>Use design criteria to evaluate product - identifying both strengths and areas for development.</p> <p>Consider the views of others, including intended user, whilst evaluating product.</p>	<p>Use design criteria to evaluate product - identifying both strengths and areas for development.</p> <p>Consider the views of others, including intended user, whilst evaluating product.</p>	<p>Use design criteria to evaluate product - looking at quality of end product and design and whether it is fit for its intended purpose.</p> <p>Consider the views of others, including intended user, whilst evaluating product.</p>
<p>Teaching cooking and nutrition- Understanding food and food preparation</p>	<p><i>Begin to understand</i> that all food comes from plants or animals.</p> <p><i>Explore the understanding</i> that food has to be farmed, grown elsewhere (e.g. home) or caught.</p>	<p><i>Understand that</i> all food comes from plants or animals. Know that food has to be farmed, grown elsewhere (e.g. home) or caught.</p>	<p>Understand which foods are reared, caught, or grown and that this happens in the UK and across the globe.</p> <p><i>Begin to understand</i> that recipes can be changed by adding or taking away ingredients.</p> <p>Understand that the seasons can affect food produce</p>	<p>Understand which foods are reared, caught, or grown and that this happens in the UK and across the globe.</p> <p><i>Understand that</i> recipes can be changed by adding or taking away ingredients.</p> <p>Understand that the seasons can affect food produce</p>	<p><i>Understand that</i> food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world.</p> <p><i>Begin to understand</i> that seasons may affect the food available.</p> <p>Understand how food is processed into ingredients that can be eaten or used in cooking.</p> <p><i>Begin to understand</i> that recipes can be adapted to change the appearance, taste and aroma of a dish.</p>	<p><i>Know that</i> food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world.</p> <p><i>Understand that</i> seasons may affect the food available.</p> <p>Understand how food is processed into ingredients that can be eaten or used in cooking.</p> <p><i>Understand that</i> recipes can be adapted to change the appearance, taste and aroma of a dish.</p>

<p>Teaching cooking and nutrition-</p> <p><u>Food preparation, cooking and nutrition</u></p>	<p>Start to understand how to name and sort foods into the five groups in 'The Eat well plate'.</p> <p>Begin to understand that everyone should eat at least five portions of fruit and vegetables every day.</p> <p>Know how to prepare simple dishes safely and hygienically, without using a heat source.</p> <p>Know how to use techniques such as cutting, peeling and grating.</p>	<p>Understand how to name and sort foods into the five groups in 'The Eat well plate'.</p> <p>Know that everyone should eat at least five portions of fruit and vegetables every day.</p> <p>Demonstrate how to prepare simple dishes safely and hygienically, without using a heat source.</p> <p>Demonstrate how to use techniques such as cutting, peeling and grating.</p>	<p>Begin to understand how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.</p> <p>Start to understand that a healthy diet is made up from a variety and balance of different food and drink, as depicted in 'The Eat well plate'.</p> <p>Begin to know that to be active and healthy, food and drink are needed to provide energy for the body.</p>	<p>Know how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.</p> <p>Know that a healthy diet is made up from a variety and balance of different food and drink, as depicted in 'The Eat well plate'.</p> <p>Know that to be active and healthy, food and drink are needed to provide energy for the body.</p>	<p>Know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source.</p> <p>Know how to use most techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.</p> <p>Begin to understand that different food and drink contain different substances - nutrients, water and fibre - that are needed for health.</p>	<p>Know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source.</p> <p>Confidently use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking.</p> <p>Know different food and drink contain different substances - nutrients, water and fibre - that are needed for health.</p>
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