



Design Technology End Points - Termly

Design Technology



Intent

I will be creative and imaginative to design and make products that solve real and relevant problems.

Intent		Design Technology is an integral part of a children’s right to a broad and balanced curriculum. Design Technology should build on children’s prior learning and provide opportunities to be creative through curricular and cross-curricular topics. Children should develop a creative mind-set, become innovative designers and have the opportunity to critically evaluate their own work so they can develop their resilience, confidence and critical thinking skills through working independently and collaboratively with others. The problem solving and critical thinking skills acquired through Design Technology can be used across the whole school curriculum and be taken into life outside the classroom.			
Year groups	Autumn 2		Spring 2		Summer 2
Year 1	Textiles Puppets <ul style="list-style-type: none"> Children will learn to join fabrics together. Children will learn to using different methods. Children will learn to use a template to create my design. Children will learn to join two fabrics together accurately. Children will learn to embellish my design using joining methods. 		Structures Constructing a Windmill <ul style="list-style-type: none"> Children will learn to include individual preferences and requirements in my design. Children will learn to make a stable structure. Children will learn to assemble the components of my structure. Children will learn to evaluate my project and adapt my design. 		Cooking and Nutrition Fruits and Vegetables <ul style="list-style-type: none"> Children will learn to identify if a food is a fruit or a vegetable Children will learn to identify where plants grow and which parts we eat. Children will learn to taste and compare fruit and vegetables. Children will learn to make a fruit and vegetable smoothie.
Year 2	Structures London Bridge <ul style="list-style-type: none"> Children will learn to explore the concept and features of structures and the stability of different shapes. Children will learn to understand that the shape of the structure affects its strength. Children will learn to make a structure according to design criteria. Children will learn to produce a finished structure and evaluate its strength, stiffness and stability. 		Mechanisms Making a Moving Monster <ul style="list-style-type: none"> Children will learn to look at objects and understand how they move. Children will learn to look at objects and understand how they move. Children will learn to explore different design options. Children will learn to make a moving monster. 		Cooking and Nutrition Balanced Diet <ul style="list-style-type: none"> Children will learn to know what makes a balanced diet. Children will learn to taste test food combinations. Children will learn to design a healthy wrap. Children will learn to make a healthy wrap.

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<p>Year 3</p>	<p>Cooking and Nutrition Eating Seasonally</p> <ul style="list-style-type: none"> Children will learn to know that climate affects food growth. Children will learn to understand the advantages of eating seasonal foods grown in the UK. Children will learn to create a recipe that is healthy and nutritious using seasonal vegetables. Children will learn to safely follow a recipe when cooking. 		<p>Textiles Egyptian Collars</p> <ul style="list-style-type: none"> Children will learn to learn how to sew cross-stitch and to appliqué. Children will learn to develop and use a template. Children will learn to assemble fabric parts into a fabric product. Children will learn to decorate fabric using appliqué and cross-stitch. 		<p>Mechanical Systems Pneumatic Toys</p> <ul style="list-style-type: none"> Children will learn to understand how pneumatic systems work. Children will learn to design a toy that uses a pneumatic system. Children will learn to create a pneumatic system. Children will learn to test and finalise ideas against design criteria.
<p>Year 4</p>	<p>Cooking and Nutrition Adapting a Recipe</p> <ul style="list-style-type: none"> Children will learn to follow a baking recipe Children will learn to make and test a prototype Children will learn to design a biscuit to a given budget. Children will learn to make a biscuit that meets a given design brief. 		<p>Digital Moments Mindful Moments</p> <ul style="list-style-type: none"> Children will learn to evaluate existing products. Children will learn to develop design criteria. Children will learn to program and control a product. Children will learn to develop and communicate ideas. Children will learn to develop ideas through computer-aided design. Children will learn to consider feedback and evaluate. 		<p>Electrical Systems Torches</p> <ul style="list-style-type: none"> Children will learn to learn about electrical items and how they work. Children will learn to analyse and evaluate electrical products. Children will learn to design a product to fit a set of specific user needs. Children will learn to make and evaluate a torch.
<p>Year 5</p>	<p>Cooking and Nutrition What Could Be Healthier?</p> <ul style="list-style-type: none"> Children will learn to understand where food comes from. Children will learn to understand the term 'healthy'. Children will learn to adapt a traditional recipe. Children will learn to complete a food product. 		<p>Digital World Monitoring Devices</p> <ul style="list-style-type: none"> Children will learn to carry out research to develop design criteria. Children will learn to write a program to monitor the ambient temperature, including an alert. Children will learn to generate creative and unique micro:bit case, stand or housing ideas. Children will learn to learn about and practise 3D CAD skills. 		<p>Mechanical Systems Making a Pop-up Book</p> <ul style="list-style-type: none"> Children will learn to design a pop-up book. Children will learn to follow my design brief to make my pop-up book. Children will learn to use layers and spacers to cover the working of mechanisms. Children will learn to create a high-quality product suitable for a target user.

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Year 6	Digital World Navigating the World <ul style="list-style-type: none">• Children will learn to write a design brief and criteria based on a client request.• Children will learn to write a program to include multiple functions as part of a navigation device.• Children will learn to develop a sustainable product concept.• Children will learn to develop 3D CAD skills to produce a virtual model.• Children will learn to present a pitch to 'sell' the product to a specified client.		Cooking and Nutrition Come Dine With Me <ul style="list-style-type: none">• Children will learn to research and design a three-course meal.• Children will learn to prepare a meal using a recipe.• Children will learn to understand where their food comes from.• Children will learn to write up a recipe.		Electrical Systems Steady Hand Game <ul style="list-style-type: none">• Children will learn to research and analyse a range of children's toys.• Children will learn to design a steady hand game.• Children will learn to construct a stable base.• Children will learn to assemble electronics and complete their electronic game.
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