



DT Progression
Reception and Key Stage 1

Early Years Foundation Stage	National Curriculum
<ul style="list-style-type: none"> • Use a range of small tools, including scissors, paint brushes and cutlery. • Share their creations, explaining the process they have used. <p>Breadth of Study</p> <ul style="list-style-type: none"> • Use everyday products, stories, pictures and experiences to inspire their creations. • Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients. • Use pictures, interests and experiences to inspire their creations. • Explore a range of tools to and equipment to perform practical tasks safely, for example, cutting and joining 	<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>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 the basic principles of a healthy and varied diet to prepare dishes • Understand where food comes from. <p>Breadth of Study</p> <ul style="list-style-type: none"> • Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.



EYFS	National Curriculum	Aspect	Reception	Year 1	Year 2
Share their creations, explaining the process they have used.	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	Generation of ideas	Create collaboratively, share ideas and use a variety of resources to make products inspired by existing products, stories or their own ideas, interests or experiences.	Create a design to meet simple design criteria.	Generate and communicate their ideas through a range of different methods.
Use a range of small tools, including scissors, paint brushes and cutlery. Explore a range of tools to and equipment to perform practical tasks safely, for example, cutting and joining.	Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	Cutting and joining textiles		Cut and join textiles using glue and simple stitches.	Use different methods of joining fabrics, including glue and running stitch.
		Investigation	Choose and explore appropriate tools for simple practical tasks.	Select the appropriate tool for a simple practical task.	Select the appropriate tool for a task and explain their choice.
Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients.	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics	Decorating and embellishing textiles		Use gluing, stapling or tying to decorate fabric, including buttons and sequins.	Add simple decorative embellishments, such as buttons, prints, sequins and appliqué.
		Materials for a purpose	Select appropriate materials when constructing and making.	Select and use a range of materials, beginning to explain their choices.	Choose appropriate components and materials and suggest ways of manipulating them to achieve the desired effect.
		Food preparation and cooking	Follow instructions, including simple recipes, that include measures and ingredients.		Prepare ingredients by peeling, grating, chopping and slicing.



<p>Use everyday products, stories, pictures and experiences to inspire their creations.</p>	<p>Explore and evaluate a range of existing products</p>	<p>Everyday products</p>	<p>Name and explore a range of everyday products and begin to talk about how they are used.</p>	<p>Name and explore a range of everyday products and describe how they are used.</p>	<p>Explain how an everyday product could be improved.</p>
<p>Share their creations, explaining the process they have used.</p> <p>Use everyday products, stories, pictures and experiences to inspire their creations.</p>	<p>Evaluate their ideas and products against design criteria</p>	<p>Compare and contrast</p>	<p>Describe what, why and how something was made and compare with others.</p>	<p>Describe the similarities and differences between two products.</p>	<p>Compare different or the same products from the same or different brands.</p>
		<p>Evaluation</p>	<p>Adapt and refine their work as they are constructing and making.</p>	<p>Talk about their own and each other's work, identifying strengths or weaknesses and offering support.</p>	<p>Explain how closely their finished products meet their design criteria and say what they could do better in the future.</p>
		<p>Significant people</p>	<p>Explore significant products.</p>		<p>Explain why a designer or inventor is important.</p>
<p>Explore and create using a wide range of materials and components, including upcycled materials, construction kits, textiles and ingredients.</p>	<p>Build structures, exploring how they can be made stronger, stiffer and more stable</p>	<p>Structures</p>	<p>Construct simple structures and models using a range of materials.</p>	<p>Construct simple structures, models or other products using a range of materials.</p>	<p>Explore how a structure 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>Mechanisms and movement</p>	<p>Explore, build and play with a range of resources and construction kits with wheels and axles.</p>	<p>Use wheels and axles to make a simple moving model. Use a range of mechanisms (levers, sliders, wheels and axles) in models or products.</p>	
	<p>Use the basic principles of a healthy and varied diet to prepare dishes</p>	<p>Food preparation and cooking</p>	<p>Follow instructions, including simple recipes, that include measures and ingredients.</p>		<p>Prepare ingredients by peeling, grating, chopping and slicing.</p>
		<p>Nutrition</p>		<p>Select healthy ingredients for a fruit or vegetable salad.</p>	<p>Describe the types of food needed for a healthy and varied diet and apply the principles</p>



					to make a simple, healthy meal.
	Understand where food comes from.	Origins of food		Sort foods into groups by whether they are from an animal or plant source.	Identify the origin of some common foods (milk, eggs, some meats, common fruit and vegetables).
Explore a range of tools to and equipment to perform practical tasks safely, for example, cutting and joining	Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.	Staying Safe	Follow rules and instructions to keep safe.	Follow the rules to keep safe during a practical task.	Work safely and hygienically in construction and cooking activities.



DT Progression

Key Stage 2

National Curriculum

Design

- 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.

Make

- 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.

Evaluate

- 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.

Technical knowledge

- 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.

Cooking and Nutrition

- 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.

Breadth of Study

- Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.
- Critique, evaluate and test their ideas and products and the work of others.



National Curriculum	Aspect	Year 3	Year 4	Year 5	Year 6
<p>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.</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p>	<p>Generation of ideas</p>	<p>Develop design criteria to inform a design.</p>	<p>Use annotated sketches and exploded diagrams to test and communicate their ideas.</p>	<p>Use pattern pieces and computer-aided design packages to design a product.</p>	<p>Develop design criteria for a functional and appealing product that is fit for purpose, communicating ideas clearly in a range of ways.</p>
<p>Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.</p>	<p>Cutting and joining textiles</p>				<p>Pin and tack fabrics in preparation for sewing and more complex pattern work.</p>
	<p>Investigation</p>	<p>Use tools safely for cutting and joining materials and components.</p>	<p>Select, name and use tools with adult supervision.</p>		<p>Select appropriate tools for a task and use them safely and precisely.</p>
<p>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>	<p>Decorating and embellishing textiles</p>				<p>Use different methods of fastening for function and decoration, including press studs, Velcro and buttons.</p>
	<p>Materials for a purpose</p>	<p>Plan which materials will be needed for a task and explain why.</p>	<p>Choose from a range of materials, showing an understanding of their different characteristics.</p>	<p>Select and combine materials with precision.</p>	<p>Choose the best materials for a task, showing an understanding of their working characteristics.</p>



Investigate and analyse a range of existing products.	Everyday products		Investigate and identify the design features of a familiar product.	Explain how the design of a product has been influenced by the culture or society in which it was designed or made.	Analyse how an invention or product has significantly changed or improved people's lives.
	Compare and contrast		Create and complete a comparison table to compare two or more products.		Create a detailed comparative report about two or more products or inventions.
Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.				Survey users in a range of focus groups and compare results.	
	Evaluation	Suggest improvements to their products and describe how to implement them, beginning to take the views of others into account.	Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements.	Test and evaluate products against a detailed design specification and make adaptations as they develop the product.	Demonstrate modifications made to a product as a result of ongoing evaluation by themselves and to others.
Understand how key events and individuals in design and technology have helped shape the world.	Significant people	Describe how key events in design and technology have shaped the world.	Explain how and why a significant designer or inventor shaped the world.	Describe the social influence of a significant designer or inventor.	Present a detailed account of the significance of a favourite designer or inventor.
Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.	Structures	Create shell or frame structures using diagonal struts to strengthen them.		Build a framework using a range of materials to support mechanisms.	
Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].	Mechanisms and movement	Explore and use a range of mechanisms (levers, sliders, axles, wheels and cams) in models or products.	Explore and use a range of mechanisms (levers, axles, cams, gears and pulleys) in models or products.		
Understand and use electrical systems in their products [for example,	Electricity		Incorporate circuits that use a variety of		Understand and use electrical circuits that incorporate a variety of



series circuits incorporating switches, bulbs, buzzers and motors].			components into models or products.		components (switches, lamps, buzzers and motors) and use programming to control their products.
Apply their understanding of computing to program, monitor and control their products.	Use of IT		Write a program to control a physical device, such as a light, speaker or buzzer.		Use a sensor to monitor an environmental variable, such as temperature, sound or light.
Understand and apply the principles of a healthy and varied diet.	Healthy lifestyle	Explain the importance and characteristics of a healthy, balanced diet.			
	Nutrition	Identify the main food groups (carbohydrates, protein, dairy, fruits and vegetables, fats and sugars).	Design a healthy snack or packed lunch and explain why it is healthy.	Evaluate meals and consider if they contribute towards a balanced diet.	
Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	Food preparation and cooking	Prepare and cook a simple savoury dish.		Use an increasing range of preparation and cooking techniques to cook a sweet or savoury dish.	Follow a recipe that requires a variety of techniques and source the necessary ingredients independently.
Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.	Origins of food	Identify and name foods that are produced in different places.		Describe what seasonality means and explain some of the reasons why it is beneficial.	
Develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world.	Staying safe	Use appliances safely with adult supervision.		Explain the functionality and purpose of safety features on a range of products.	Demonstrate how their products take into account the safety of the user.



Critique, evaluate and test their ideas and product and the work of others.					
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