

Progression Skills in Design Technology

Designing	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Understanding contexts, users and purposes	<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>Research inventors, designers, engineers, chefs and manufacturers who have developed ground breaking products.</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>Research inventors, designers, engineers, chefs and manufacturers who have developed ground breaking products.</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>Identify the cost to make the product.</p> <p>Research inventors, designers, engineers, chefs and manufacturers who have developed ground breaking products.</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.</p> <p>Research inventors, designers, engineers, chefs and manufacturers who have developed ground breaking products.</p>

Designing	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Generating, developing, modelling and communicating ideas.	Explain what product they will be designing and making.	Use own experiences and existing products to develop ideas.	Understand and gather information about what a particular group or people want from a product.	Understand and gather information about what a particular group or people want from a product.	Understand and gather information about what a particular group or people want from a product.	Understand and gather information about what a particular group or people want from a product.
	Explain who their product will be used by.	Explain what product they will be designing and making.	Describe the purpose of their product and how it will work.	Describe the purpose of their product and how it will work.	Describe the purpose of their product and how it will work.	Describe the purpose of their product and how it will work.
	Describe what their product will be used for.	Explain who their product will be used by.	Identify design features that will appeal to intended users.	Identify design features that will appeal to intended users.	Identify design features that will appeal to intended users.	Identify design features that will appeal to intended users.
	Begin to communicate their ideas through talk and drawings.	Describe what their product will be used for.	Explain how parts of their product work.	Explain how parts of their product work.	Explain how parts of their product work.	Explain how parts of their product work.
		Develop and communicate ideas by talking and drawing.	Generate realistic ideas that meet needs of user.	Develop their own design criteria and use for planning ideas.	Develop their own design criteria and use for planning ideas.	Create a design description for their product.
		Model ideas by exploring materials, components and construction kits and by making templates and mock-ups.		Generate realistic ideas that meet needs of user.	Generate innovative ideas that meet needs of user and take into account availability of resources.	Highlight the impact of time, resources and cost within their design ideas.
		Use information and communication technology where appropriate, to develop and communicate their ideas.				Generate innovative ideas that meet needs of user.

Making	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Planning Practical skills and techniques	<p>Select from a range of tools and equipment</p> <p>Follow safety and hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components.</p> <p>Join, assemble and combine materials and components.</p>	<p>Choose suitable tools for making and explain why they should be used.</p> <p>Follow safety and hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components.</p> <p>Join, assemble and combine materials and components.</p> <p>Use finishing techniques including skills learnt in art.</p>	<p>Choose suitable tools for making.</p> <p>Explain their choice of materials and components according to functional properties and aesthetic qualities.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components with some accuracy.</p> <p>Join, assemble and combine materials with some accuracy.</p> <p>Use finishing techniques including skills learnt in art with some accuracy.</p>	<p>Choose suitable tools for making.</p> <p>Explain their choice of materials and components according to functional properties and aesthetic qualities.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components with some accuracy.</p> <p>Join, assemble and combine materials with some accuracy.</p> <p>Use finishing techniques including skills learnt in art with some accuracy.</p>	<p>Choose suitable tools for making.</p> <p>Explain their choice of materials and components according to functional properties and aesthetic qualities.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components with some accurately.</p> <p>Join, assemble and combine materials with some accurately.</p> <p>Demonstrate problem solving skills when encountering a mistake or practical problem.</p> <p>Use finishing techniques including skills learnt in art with some accurately.</p>	<p>Choose suitable tools for making.</p> <p>Explain their choice of materials and components according to functional properties and aesthetic qualities.</p> <p>Use design criteria whilst making.</p> <p>Follow safety and hygiene procedures.</p> <p>Measure, mark, cut and shape materials and components with some accurately.</p> <p>Join, assemble and combine materials with some 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 with some accurately.</p>

Evaluating	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Own ideas and products	<p>Talk about their design ideas and what they have made</p> <p>Make simple judgements about their products and ideas against design criteria</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>

Evaluating	Across Key Stage 1	Early Key Stage 2	Late Key stage 2
Existing products	<p>Pupils should explore:</p> <ul style="list-style-type: none"> • what products are • who products are for • what products are for • how products work • where products might be used • what materials products are made from • what they like and dislike about products 	<p>Across KS2 pupil should investigate and analyse:</p> <ul style="list-style-type: none"> • how well products have been designed • how well products have been made • why materials have been chosen • what methods of construction have been used • how well products work • how well products achieve their purposes • how well products meet user needs and wants <p>In early KS2 pupils should also investigate and analyse:</p> <ul style="list-style-type: none"> • who designed and made the products • where products were designed and made • when products were designed and made • whether products can be recycled or reused 	<p>Across KS2 pupil should investigate and analyse:</p> <ul style="list-style-type: none"> • how well products have been designed • how well products have been made • why materials have been chosen • what methods of construction have been used • how well products work • how well products achieve their purposes • how well products meet user needs and wants <p>In late KS2 pupils should also investigate and analyse:</p> <ul style="list-style-type: none"> • how much products cost to make • how innovative products are • how sustainable the materials in products are • what impact products have beyond their intended purpose

Cooking and Nutrition	Key Stage 1	Early Key Stage 2	Late Key Stage 2
Where food comes from	<p>Across KS1 pupils should know:</p> <ul style="list-style-type: none"> that all food comes from plants or animals that food has to be farmed, grown elsewhere (e.g. home) or caught 	<p>Across KS2 pupils should know:</p> <ul style="list-style-type: none"> that 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>Across KS2 pupils should know:</p> <p>that 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>Pupils should also know:</p> <ul style="list-style-type: none"> that seasons may affect the food available how food is processed into ingredients that can be eaten or used in cooking
Food preparation, cooking and nutrition	<p>Across KS1 pupils should know:</p> <ul style="list-style-type: none"> how to name and sort groups into the five groups in The Eatwell plate that everyone should eat at least five portions of fruit and vegetables every day how to prepare simple dishes safely and hygienically, without using a heat source how to use techniques such as cutting, peeling and grating 	<p>Across KS2 pupils should know:</p> <ul style="list-style-type: none"> how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking <p>In early KS2 pupils should also know:</p> <ul style="list-style-type: none"> that a healthy diet is made up from a variety and balance of different food and drink, as depicted in The Eatwell plate that to be active and healthy, food and drink are needed to provide energy for the body 	<p>Across KS2 pupils should know:</p> <ul style="list-style-type: none"> how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source <p>how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking</p> <p>In late KS2 pupils should know:</p> <ul style="list-style-type: none"> that different food and drink contain different substances - nutrients, water and fibre- that are needed for health