

Level Expected at the End of EYFS

We have selected the Early Learning Goals that link most closely to the Art and Design National Curriculum.

- Expressive Arts and Design (Exploring and Using Media and Materials)

Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.

- Expressive Arts and Design (Being Imaginative)

Children use what they have learnt about media and materials in original ways, thinking about uses and purposes. They represent their own ideas, thoughts and feelings through design and technology, art, music, dance, role play and stories.

- Physical Development (Moving and Handling)

Children handle equipment and tools effectively, including pencils for writing.

Key Stage 1 National Curriculum Expectations:

Design

Pupils should be taught to:

- 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.

Make

Pupils should be taught to:

- 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.

Evaluate

Pupils should be taught to:

- explore and evaluate a range of existing products;
- evaluate their ideas and products against design criteria.

Technical Knowledge

Pupils should be taught to:

- 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.

Cooking and Nutrition

Pupils should be taught to:

- use the basic principles of a healthy and varied diet to prepare dishes;
- understand where food comes from.



Design	Technical Knowledge
 Pupils should be taught to: 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 Pupils should be taught to: 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 Pupils should be taught to: 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. 	 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 Pupils should be taught to: 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.

Please note, the National Curriculum for KS2 states that children should 'generate, develop, model and communicate their ideas through computer-aided design'. In most units, there will be lessons where children focus on creating designs for their products: these designs could easily be created using computer-aided design according to the software in school so plans will be adapted as necessary to meet this.



			De	sign – Developing	g A Plan				
EYFS	Year 1	Year 2 Yea		r 3	Year 4	Year 5		Year 6	
• Explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	 Draw on their own experience to help generate ideas Start to look at given examples to inform their designs Model their ideas on paper or card 	 Generate ideas by drawing on their own and other people's experiences Develop their design ideas through discussion, observation, drawing and modelling Identify a purpose and target group for what they intend to design and make • Develop their design ideas by looking at given examples Make simple drawings and label parts 	 Generate ideas for an item, considering its purpose and the user/s Identify a purpose and establish criteria for a successful product, perhaps through discussion Begin to plan the order of their work before starting Explore, develop and communicate design proposals by modelling ideas Develop their design ideas by finding other examples to look at Make drawings with labels when designing 		 Generate ideas by considering the context and purpose, and by researching other examples, to support their design Develop a clear idea of what has to be done, planning how to use materials and equipment Make labelled drawings from different views showing specific features 	design s • Plan th (i.e. the method • Use re investiga informat including developi Start to about w to draw		 Independently develop a design specification Plan the order of their work, choosing appropriate materials, tools and techniques Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways Independently make decisions about which viewpoints to draw from in order to show specific features 	
		Make/Technical kn	owle	edge- Working wi	th equipment and	d mate	rials		
EYFS Year 1 Year 2		Year 2		Year 3	Year 4		Year 5		Year 6
 Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. Use what they have learni about media and materials in original ways, thinking about the uses and purposes. They represent their own ideas, through and feelings 	 With help mark out, measure, cut and shape a range of materials Use equipment safely e.g. 	 Mark out, measure, cut and score materials (including fabric) with some accuracy, e.g. to the nearest 10cm Use tools safely: e.g. needle, nacksaw and vice Use correct vocabulary to name and describe tools Use basic sewing techniques 		sandpaper, hammer, nails, hand drill, saw • Begin to explain why particular tools are used	 Use tools safely: e.g. clamp, sandpaper, hammer, nails, hand drill, saw Select specific tools and explain why they are more appropriate Sew using a range of different stitches/weaves 		 Measure, cut, shape and join a range of materials to a high level of precision, e.g. to the nearest mm Use tools safely: e.g. pliers, cutters 		 Measure, cut, shape and join a range of materials to a high level of precision, e.g. to the nearest mm Use tools safely: e.g. glue gun, pliers, cutters



Progression of Skills in Design Technology

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 through design and technology. Handle equipment and tools effectively, including pencils for writing. 	scissors, hole punch, tape, glue	• Follow advice to improve the appearance of their product	appropriate finishing techniques	 Use finishing techniquestrengthen their productions strengthen their production strengthen their production strengthen their choice 	ct and , giving				
		Eva	luate- Evaluating p	products	· · ·				
EYFS	Year 1	Year 2	Year 3	Year 4		Year 5	Year 6		
• Use what they have learnt about media and materials in original ways, thinking about the uses and purposes. They represent their own ideas, through and feelings through design and technology.	• Evaluate duri and after the making process making simple comments abo strengths and weaknesses	after the making process s by by referring back to their original ideas and	 back to their design cri research and prototype Ask questions of othe and start to think abou altering their approach where appropriate Offer constructive criticism of their peers' products 	teria, based on their es others' evaluat during the mal t process, perha disassembling starting again • Record their evaluations usi range of equip ons ICT	roach own and tions king ps and ing a	• Evaluate their products by carrying out appropriate tes	products by carrying out		
			Cooking and Nutr	ition					
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5		Year 6		
• Handle equipment and tools effectively, including pencils for writing.	 Use tools safe Can explain b kitchen safety r (e.g. putting kn down, carrying equipment safe 	 Following instructions about basic food handling and hygiene, and kitchen safety, e.g. 	 Use tools safely Explain the reasons for food hygiene procedur Choose and use appropriate finishing techniques 		ingredien • Use finis technique appearan	ind measure ts	 Use tools safely Weigh and measingredients Select and use appropriate ingreating for a healthy dish Use finishing tecto improve appear and taste, giving refor their choices 	lients hniques rance	

Progression of Skills in Design Technology

