



Design & Technology Progression of Learning at Woodstock CE Primary School

National Curriculum Overview

Key Stage 1 Key Stage 2

Through a variety of creative and practical activities, pupils should be taught:

- The knowledge, understanding and skills needed to engage in an iterative process of designing and making
- Work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment, including food and nutrition]
- Acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art

Design										
EYFS KS1: Years 1 & 2			KS2: Years 3 & 4				KS2: Years 5 & 6			
ELG ☆ Represent own ideas, thoughts and feelings in	Understanding contexts, users and purposes	Generating, developing, modelling and communicating ideas	ι	Understanding contexts, users and purposes	,	Generating, developing, modelling and communicating ideas		Understanding contexts, users and purposes	(Generating, developing, Modelling and communicating ideas
a variety of ways.	 ☆ Work confidently within a range of contexts, such as imaginary, story-based, home, school, gardens, playgrounds, local community, industry and the wider environment ☆ State what products they are designing and making ☆ Say whether their products are for themselves or other users ☆ Describe what their products are for ☆ Say how their products will work ☆ Say how they will make their products suitable for their intended users 	 ☆ Generate ideas by drawing on their own experiences ☆ Use knowledge of existing products to help come up with ideas ☆ Develop and communicate ideas by talking and drawing ☆ Model ideas by exploring materials, components and construction kits and by making templates and mock-ups ☆ Use information and communication technology, where appropriate, to develop and communicate their ideas 	☆	Work confidently within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment Describe the purpose of their products Indicate the design features of their products that will appeal to intended users Explain how particular parts of their products work Gather information about the needs and wants of individuals and groups Develop their own design criteria and use these to inform their ideas		Share and clarify ideas through discussion Model their ideas using prototypes and pattern pieces Use annotated sketches, cross-sectional drawings and exploded diagrams to develop and communicate their ideas Use computer-aided design to develop and communicate their ideas Generate realistic ideas, focusing on the needs of the user Make design decisions that take account of the availability of resources		Work confidently within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment Describe the purpose of their products Indicate the design features of their products that will appeal to intended users Explain how particular parts of their products work Carry out research, using surveys, interviews, questionnaires and web-based resources Identify the needs, wants, preferences and	☆ ☆ ☆ ☆ ☆ ☆	Share and clarify ideas through discussion Model their ideas using prototypes and pattern pieces Use annotated sketches, cross-sectional drawings and exploded diagrams to develop and communicate their ideas Use computer-aided design to develop and communicate their ideas Generate innovative ideas, drawing on research Make design decisions, taking account of constraints such as time, resources and cost

☆ Use simple design			values of individuals	
criteria to help develop			and groups	
their ideas		7	☼ Develop a simple	
			design specification to	
			guide their thinking	

Make								
EYFS	EYFS KS1: Years 1 & 2		KS	2: Years 3 & 4	KS2: Yea	KS2: Years 5 & 6		
ELG ☆ Safely use and explore a	Planning	Practical Skills & Techniques	Planning	Practical Skills & Techniques	Planning	Practical Skills & Techniques		
variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.	 ☆ Plan by suggesting what to do next ☆ Select from a range of tools and equipment, explaining their choices ☆ Select from a range of materials and components according to their characteristics 	Follow procedures for safety and hygiene Use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components Measure, mark out, cut and shape materials and components Assemble, join and combine materials and components Use finishing techniques, including those from art and design	 ★ Select tools and equipment suitable the task ★ Explain their choice tools and equipment relation to the skile and techniques the will be using ★ Select materials are components suitale for the task ★ Explain their choice materials and components accord to functional propend aesthetic quale order the main state of making 	Use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components of Measure, mark out, cut and shape materials and components with some accuracy Assemble, join and	equipment suitable for the task Explain their choice of tools and equipment in relation to the skills and techniques they will be using Select materials and components suitable for the task Explain their choice of materials and components according to functional properties and aesthetic qualities Produce appropriate lists of tools, equipment and materials that they need Formulate step-by-step plans as a guide to making	 ☆ Follow procedures for safety and hygiene ☆ Use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components ☆ Accurately measure, mark out, cut and shape materials and components ☆ Accurately assemble, join and combine materials and components ☆ Accurately apply a range of finishing techniques, including those from art and design ☆ Use techniques that involve a number of steps ☆ Demonstrate resourcefulness when tackling practical problems 		

Evaluate							
EYFS KS1: Years 1 & 2		KS2: Years 3 & 4	KS2: Years 5 & 6				
ELG	Own Ideas & Products Existing Products	Own Ideas & Products Existing Products	Own Ideas & Products Existing Products				
☼ Use what they have learnt about media and materials in original ways, thinking about uses and purposes.	Talk about their design ideas and what they are making Make simple judgements about their products and ideas against design criteria Suggest how their products could be improved Children will explore: What products are for What products are for How products are use Where products might be used What materials products are made from What they like and dislike about products		☆ Identify the strengths and areas for development in their ideas and products ☆ Children will investigate and analyse: ☆ Consider the views of others, including intended users, to improve their work ☆ How well products have been made improve their work ☆ What methods of construction have been used ☆ Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make ☆ How well products work ☆ Evaluate their ideas and products against their original design specification ☆ How well products achieve their purposes ☆ How much products cost to make? ☆ How innovative products are? ☆ How sustainable the materials in products have beyond their intended purpose				

Children should know about: Key Events & Individuals: Inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products. These will be identified in the long-term plan Learning Journeys and link to phase group themes.

Technical Knowledge							
EYFS KS1: Years 1 & 2		KS2: Years 3 & 4	KS2: Years 5 & 6				
ELG	Making Products Work	Making Products Work	Making Products Work				
 ☆ Recognise that a range of technology is used in places such as homes and schools. ☆ Select and use technology in different ways. 	Children will know: About the simple working characteristics of materials and components About the movement of simple mechanisms such as levers, sliders, wheels and axles How freestanding structures can be made stronger, stiffer and more stable Children will know: That a 3-D textiles product can be assembled from two identical fabric shapes That food ingredients should be combined according to their sensor characteristics The correct technical vocabulary for the projects they are undertaking	Image: Annument of the content of	Image: Procession of the projects that work science to help design and make products that work Children will know: Image: Procession of the projects they are undertaking Children will know: Image: Properties that work science to help design and make products that work wather that work design and make products that work wather materials have both functional products that work wather materials can be combined and mixed to create more useful characteristics wather to make an input, process and output water the projects they are undertaking Image: Properties wather water w				

Food Technology							
EYFS	KS1: Years 1 & 2		KS2: Ye	ars 3 & 4	KS2: Ye	KS2: Years 5 & 6	
ELG ☆	Where Food Comes From	Food Preparation, Cooking & Nutrition	Where Food Comes From	Food Preparation, Cooking & Nutrition	Where Food Comes From	Food Preparation, Cooking & Nutrition	
	Children will know: ☆ All food comes from plants or animals ☆ Food has to be farmed, grown elsewhere (e.g. home) or caught	Children will know: How to name and sort foods 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	Children will know: 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 What seasons foods grow best	Children will know: 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 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	Children will know: 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 Seasons may affect the food available How food is processed into ingredients that can be eaten or used in cooking	Children will know: 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 That recipes can be adapted to change the appearance, taste, texture and aroma That different food and drink contain different substances − nutrients, water and fibre − that are needed for health	