DESIGN TECHNOLOGY

Purpose of Study: Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Pupils learn how to take risks, becoming resourceful, innovative, enterprising and capable citizens. Through the evaluation of past and present design and technology, they develop a critical understanding of its impact on daily life and the wider world. High-quality design and technology education makes an essential contribution to the creativity, culture, wealth and well-being of the nation.

The national curriculum for design and technology aims to ensure that all pupils:

- develop the creative, technical and practical expertise needed to perform everyday tasks confidently and to participate successfully in an increasingly technological world
- build and apply a repertoire of knowledge, understanding and skills in order to design and make high-quality prototypes and products for a wide range of users
 - critique, evaluate and test their ideas and products and the work of others and understand and apply the principles of nutrition and learn how to cook.

KS1 Pupils should be taught:	KS2 Pupils should be taught:
 Design 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 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 explore and evaluate a range of existing products evaluate their ideas and products against design criteria 	 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
 Technical knowledge 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 use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from 	 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.

Intent

At Anderton Primary School it is our intent that Design Technology will offer the children opportunity to think creatively, problem solve and take risks. Children will design within a purpose and produce a tangible outcome. Design Technology children will develop a broad range of subject knowledge and draw upon skills from other subjects such as mathematics, science, computing and art. DT is taught through practical and engaging lessons that will provide children with the knowledge and understanding of skills needed to design and make. Design Technology is taught using the Design, Make and Evaluate cycle, this is implemented each term in classes across KS1 and KS2 to fit in appropriately with the class topics.

Implementation

To ensure high standards of teaching and learning in design and technology, we implement a curriculum that is progressive throughout the whole school. Design and technology is taught as part of a termly topic, focusing on knowledge and skills stated in the National Curriculum. The teaching of DT should enable all children to gain 'real-life' experiences. Teachers plan lessons for their class using our progression of knowledge and skills documents. The progression document ensures the curriculum is covered and the skills/knowledge taught is progressive from year group to year group

Impact

The high-quality teaching of DT at Anderton Primary School will enable learners to build a strong range of core skills as they progress through the school that will give them the opportunity to become resourceful, innovative, enterprising and capable citizens. All children will feel empowered to design and create a range of products as well as applying practical expertise to enable them to participate successfully in an increasingly technological world. Children will evaluate work by other designers and consider how resources may be adapted to suit the needs of others. They will learn to see the value of design in a variety of contexts and the scope of art to build towards different careers in the future.

Key Concepts (Curriculum Overview)								
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Autumn	Halloween Crafts							
	Bonfire Crafts		Food & Shell		Mediterranean		Celebration food	
	Christmas Cards and		Structures		Cuisine		textile decorations	
	Crafts							

Spring	Valentines Day Cards and Crafts Mother's Day Cards Easter Baskets	Healthy Food & Lunch Bag		Food/ Textiles		Greek Cuisine and Box Structures	
Summer	Father's Day Cards and Crafts Summer Arts and Crafts		Mechanisms		Reading Light		Electrical systems
			Skills and Knowled	ge Progression			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Developing, planning and communicating ideas.	• To talk about their ideas, choose resources, tools and techniques with a purpose in mind	 Draw on their own experience to help generate ideas Suggest ideas and explain what they are going to do Identify a target group for what they intend to design and make Develop their design ideas applying findings from their earlier research • Evaluate current products. 	 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 for what they intend to design and make Identify simple design criteria Make simple drawings and label parts Evaluate current products. 	 Generate ideas for an item, considering its purpose and the user/s Identify a purpose and establish criteria for a successful product. Plan the order of their work before starting Explore, develop and communicate design proposals by modelling ideas Make drawings with labels when designing Evaluate products and identify criteria that can be used for their own designs 	 Generate ideas, considering the purposes for which they are designing Make labelled drawings from different views showing specific features Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail Evaluate products and identify criteria that can be used for their own designs 	 Generate ideas through brainstorming and identify a purpose for their product Draw up a specification for their design Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail Use results of investigations, information sources, including ICT when developing design ideas • Evaluate products and identify criteria that can be used for their own designs 	 Communicate their ideas through detailed labelled drawings Develop a design specification Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways Plan the order of their work, choosing appropriate materials, tools and techniques Evaluate products and identify criteria that can be used for their own designs
Working with tools, equipment, materials and components to	 To use equipment and tools to build, construct and make simple models and props; use tools and 	 Make their design using appropriate techniques 	• Begin to select tools and materials; use vocab' to name and describe them	•Select tools and techniques for making their product	•Select appropriate tools and techniques for making their product	•Select appropriate materials, tools and techniques	•Select appropriate tools, materials, components and techniques

make quality	equipment linked to food	• With help measure,	 Measure, cut and 	 Measure, mark out, 	• Measure, mark out,	 Measure and mark 	Assemble
products	preparation.	mark out, cut and	score with some	cut, score and	cut and shape a range	out accurately	components make
•	 To handle and use 	shape a range of	accuracy	assemble components	of materials, using	 Use skills in using 	working models
	equipment appropriately	materials	 Use hand tools 	with more accuracy	appropriate tools,	different tools and	 Use tools safely and
	and safely.	• Use tools eg scissors	safely and	 Work safely and 	equipment and	equipment safely and	accurately
		and a hole punch	appropriately	accurately with a	techniques	accurately	Construct products
	• To make models and props	sately • Assemble,	• Assemble, join and	range of simple tools	Join and combine	• Cut and join with	using permanent
	materials e.g. construction	Join and combine	compline materials in	Ihink about their	materials and	accuracy to ensure a	Joining techniques
	kits reclaimed materials	materials and	order to make a	Ideas as they make	accurately in	good-quality finish to	Make modifications as they as along
	Experiment with different	using a variety of	product	willing change things	temporary and	the product	as they go along
	ways to build, construct and	temporary methods		if this helps them	permanent ways		• PIII, Sew and Stitch
	join resources. Make props	e.g. glues or masking		improve their work	• Use simple graphical		create a product
	to use in their play /role	tape.		• Measure, tape or	communication		Achieve a quality
	play/when acting out			pin, cut and join fabric	techniques		product
	stories/taking on story			with some accuracy			
	characters.			Use finishing			
				techniques strengthen			
				and improve the			
				appearance of their			
				product using a range			
				of equipment			
	• use tools and equipment	•Soloct and uso	- Felloweefe				. Us de acteur d
	linked to food preparation	•Select and use	• Follow safe	•Demonstrate	Onderstand seasonality and	• weign and measure	Understand seasonality and
	linked to food preparation. • To handle and use	appropriate fruit and	 Follow safe procedures for food safety and hygiene 	hygienic food	Onderstand seasonality and understand know	• Weign and measure accurately (time, dry ingredients, liquids)	Onderstand seasonality and understand know
	linked to food preparation. • To handle and use equipment appropriately	appropriate fruit and vegetables, processes and tools	 Follow safe procedures for food safety and hygiene Choose and use 	•Demonstrate hygienicfood preparation and storage	• Understand seasonality and understand know where and how a	 weign and measure accurately (time, dry ingredients, liquids) Apply the rules for 	Onderstand seasonality and understand know where and how a
Cooking and	linked to food preparation. • To handle and use equipment appropriately and safely.	appropriate fruit and vegetables, processes and tools • Use basic food	 Follow safe procedures for food safety and hygiene Choose and use appropriate finishing 	 Demonstrate hygienic food preparation and storage To have a basic 	Onderstand seasonality and understand know where and how a variety of ingredients	 Weign and measure accurately (time, dry ingredients, liquids) Apply the rules for basic food hygiene 	 Understand seasonality and understand know where and how a variety of ingredients
Cooking and	 Inked to food preparation. To handle and use equipment appropriately and safely. 	 appropriate fruit and vegetables, processes and tools Use basic food handling, hygienic 	 Followsafe procedures for food safety and hygiene Choose and use appropriate finishing techniques 	 Demonstrate hygienic food preparation and storage To have a basic understanding of 	• Understand seasonality and understand know where and how a variety of ingredients are grown, reared,	 Weigh and measure accurately (time, dry ingredients, liquids) Apply the rules for basic food hygiene and other safe 	 Understand seasonality and understand know where and how a variety of ingredients are grown, reared,
Cooking and Nutrition	 Inked to food preparation. To handle and use equipment appropriately and safely. 	 appropriate fruit and vegetables, processes and tools Use basic food handling, hygienic practices and personal 	 Followsafe procedures for food safety and hygiene Choose and use appropriate finishing techniques Use simple finishing 	 Demonstrate hygienic food preparation and storage To have a basic understanding of where food comes 	• Understand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed.	 Weigh and measure accurately (time, dry ingredients, liquids) Apply the rules for basic food hygiene and other safe practices e.g. hazards 	 Understand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed.
Cooking and Nutrition	linked to food preparation. • To handle and use equipment appropriately and safely.	 appropriate fruit and vegetables, processes and tools Use basic food handling, hygienic practices and personal hygiene 	 Pollowsare procedures for food safety and hygiene • Choose and use appropriate finishing techniques Use simple finishing techniques to 	 Demonstrate hygienic food preparation and storage To have a basic understanding of where food comes from. 	 Onderstand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed. To use a range of 	 Weign and measure accurately (time, dry ingredients, liquids) Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of 	 Understand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed.
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Cooking and Nutrition	 To handle and use equipment appropriately and safely. To talk about what they like/dislike about their models/constructions/props say why, and how they 	 Select and use appropriate fruit and vegetables, processes and tools Use basic food handling, hygienic practices and personal hygiene Evaluate their product by discussing how well it works in relation to the 	 Followsafe procedures for food safety and hygiene • Choose and use appropriate finishing techniques Use simple finishing techniques to improve the appearance of their product Evaluate against their design criteria Evaluate their product as they are 	 Demonstrate hygienic food preparation and storage To have a basic understanding of where food comes from. Evaluate their product against original design criteria e.g. how well it meets 	 Understand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed. To use a range of cooking techniques to prepare and create a range savoury dishes. Evaluate their work both during and at the end of the assignment 	 Weign and measure accurately (time, dry ingredients, liquids) Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens. Evaluate a product against the original design specification 	 Understand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed. Evaluate their products, identifying strengths and areas for development and
Cooking and Nutrition	 To talk about what they like/dislike about their models/constructions/props say why, and how they would change them. 	 Select and use appropriate fruit and vegetables, processes and tools Use basic food handling, hygienic practices and personal hygiene Evaluate their product by discussing how well it works in relation to the purpose 	 Followsafe procedures for food safety and hygiene • Choose and use appropriate finishing techniques Use simple finishing techniques to improve the appearance of their product Evaluate against their design criteria Evaluate their products as they are developed 	 Demonstrate hygienic food preparation and storage To have a basic understanding of where food comes from. Evaluate their product against original design criteria e.g. how well it meets its intended purpose 	 Onderstand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed. To use a range of cooking techniques to prepare and create a range savoury dishes. Evaluate their work both during and at the end of the assignment Evaluate their 	 Weign and measure accurately (time, dry ingredients, liquids) Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens. Evaluate a product against the original design specification Evaluate it personally and seek 	 Understand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed. Evaluate their products, identifying strengths and areas for development, and carrying out
Cooking and Nutrition Evaluating	 To handle and use equipment appropriately and safely. To talk about what they like/dislike about their models/constructions/props say why, and how they would change them. 	 Select and use appropriate fruit and vegetables, processes and tools Use basic food handling, hygienic practices and personal hygiene Evaluate their product by discussing how well it works in relation to the purpose Evaluate their 	 Followsafe procedures for food safety and hygiene • Choose and use appropriate finishing techniques Use simple finishing techniques to improve the appearance of their product Evaluate against their design criteria Evaluate their products as they are developed, identifying strengths 	 Demonstrate hygienic food preparation and storage To have a basic understanding of where food comes from. Evaluate their product against original design criteria e.g. how well it meets its intended purpose Disassemble and 	 Orderstand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed. To use a range of cooking techniques to prepare and create a range savoury dishes. Evaluate their work both during and at the end of the assignment Evaluate their products carrving out 	 Weign and measure accurately (time, dry ingredients, liquids) Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens. Evaluate a product against the original design specification Evaluate it personally and seek evaluation from 	 Understand seasonality and understand know where and how a variety of ingredients are grown, reared, caught and processed. Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests
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		• Evaluate their product by asking questions about what they have made and how they have gone about it					theirproduct could be improved
			Vocabu	lary			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Developing, planning and communicating ideas.	Idea	Product, user, materials, label, part,	purpose, design, stages, equipment, plan, designer	technique, criteria, features, design brief, adapt, labelled drawings,	annotated sketch, viewpoints, process, engineer, represent, original, sketch	Consumer, service, cross section, specification, finish, procedures,	Annotations, exploded diagram, pattern pieces, costings,
Working with tools, equipment, materials and components to make quality products	Make, made, join, cut	measure, mark, instructions, decorate, Sew, template, needle, thread, knot	Shape, combine, assemble, test	Attach, pieces, techniques, construct, repair, systematic, score, centimetre, prototype, over stitch, cross stitch, pin (verb), fastening, back stitch, seam allowance,	Components, functional, aesthetic, appearance, millimetre, accuracy, reinforce, Electronics, parallel circuit, series circuit, bulb, switch, buzzer, motor, control, monitor, software, program	Assemble, refine, Fill, sand,	
Cooking and Nutrition	Healthy, unhealthy, knife, fork, spoon, food, water, taste,	Ingredients, fruit, vegetable, dairy, oil, spread, beans, pulses, eggs, fish, meat, protein, potato, rice, bread, pasta, starchy carbohydrate, safe, clean	Variety, diet, farm, grow, catch, cut, peel, grate, measure, weigh, recipe, spoons, cups, scales	Meal, balanced, mash, whisk, crush, hygiene, nutrition, energy, appearance, texture	Reared, processed, mix, knead, bake, temperature, oven, hob, grams, millilitres, seasonal	Menu, global, harvest, microorganisms, storage	Seasonal, food industry, utensils, griddle, grill, fry, boil, scale, ratio, substitute, temperature, aroma

Evaluating processes and products	Like, dislike	Like, dislike	Strengths, changes,	Improvements, market, designer, technology, function	Disassemble, feedback, modify	Manufacture, alterations, analysis	Adjustment, refinement, sustainability, energy efficient, human impact,
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