

Saint John the Evangelist Catholic Academy

Progression of Skills Document - 2023 - 2024



DESIGN	Key Stage One : design purposef appealing product and other users b criteria generate, develor communicate their talking, drawing, t ups and, where ap information and c technology	ul, functional, rs for themselves based on design op, model and ir ideas through templates, mock- opropriate,	Key Stage Two: - -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 I-generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Key Stage 3 -generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design key Stage 3 -generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design I use research and exploration, such as the study of different cultures, to identify and understand user needs- identify and solve their own design problems and understand how to reformulate problems given to them I-develop specifications to inform the design of innovative, functional, appealing products that respond to needs in a varie situations -use a variety of approaches [for example, biomimicry and user-centred design], to generate creative ideas and avoid stereotypical responses I-develop and communicate design ideas using annotated sketches, detailed plans, 3-D and mathematical modelling, oral an digital presentations and computer-based tools				needs in a variety of and avoid
EYFS	Year one	Year Two	Year Three	Year Four	Year 5	Year 6	Year 7
*Select appropriate resources *Use gestures, talking and arrangements of materials and components to show design * Use contexts set by the teacher and myself *Use language of designing and making	Describe what they want to do using pictures and words • Make lists of materials they will need • Think of some ideas of their own • Explain what they are making • Plan an outcome through	 Generate ideas through comparing existing products Describe their design by using pictures, diagrams, and words Say how the product will be useful to the user Start to describe how a 	 Plan their design, using diagrams and labels Plan the equipment/ tools needed and give reasons why? Start to order the main stages of making their product Design criteria and establish a purpose/ audience for their product. use what they know about the properties of 	 Create a final design for their product based on initial ideas and revisions, based on existing ideas. Create a detailed plan considering their target audience, design criteria and intended purpose? Collect and use information to generate ideas. Consider the way the product will be used when planning. 	 Survey their target audience and use this to generate ideas Take a user's view into account when designing? Produce a detailed step-by-step plan for their design method Suggest some alternative designs and compare the benefits and drawbacks to inform 	 Use a range of information to inform their design Use market research to inform plans Work within constraints. Justify their plan to someone else Keep cost constraints in mind when selecting materials in design Use their knowledge of science and art when designing. 	Students will be introduced to the Product Design workshop and the various safety requirements. They will learn the importance of Product Design in society and they will produce their first design brief for a client (currently Argos).

(join, build, shape, longer, shorter, heavier etc.) pictures with labels commercial product works materials to ideas. · Make use ideas? · Recognise must meet needs, · Apply wha about mech create mov planning and	to plan signs of to plan must meet a range of criteria. • Make ongoing sketches and annotations and constraints? • Think ahead about the order of their work? to then	 the design process and outcome. Use sketches to show other ways of doing things - and then make choices between designs. Make up a prototype first. Calculate the amo of materials needs this to estimate c . Consider the use the product when selecting material Make up a protor first? 	e of continue with research for their unt project and learn d use techniques to help ost. generate and of develop design ideas. Drawing/Rendering
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			 Isometric and
			oblique shapes.
			•Rendering
			techniques: cross-
			hatching, vertical
			lines, dots.
			•Adding shadows
			to an object.

Make		e a wide range of onents, including als, textiles and	joining and finishing], acco -select from and use a wid ingredients, according to Key Stage Three: -select from and use spec precisely, including compu	urately der range of materials and their functional propertie ialist tools, techniques, pr ter-aided manufacture der, more complex range o	ipment to perform practic l components, including cor s and aesthetic qualities ocesses, equipment and mo f materials, components a	achinery	
EYFS *Construct with a purpose, using a variety of resources *Use simple tools and techniques *Build / construct with a wide range of objects *Select tools & techniques to shape, assemble and join *Replicate structures with materials / components	Year one *explain what I'm making and why *consider what I need to do next *select tools/equipment to cut, shape, join, finish and explain choices *measure, mark out, cut and shape, with support *choose suitable materials and explain choices *try to use finishing techniques to make product look good	Year Two *explain what I am making and why it fits the purpose *make suggestions as to what I need to do next. *join materials/components together in different ways *measure, mark out, cut and shape materials and components, with support. *describe which tools I'm using and why *choose suitable	Year Three *select suitable tools/equipment, explain choices; begin to use them accurately * select appropriate materials, fit for purpose. * work through plan in order *consider how good product will be * begin to measure, mark out, cut and shape materials/components with some accuracy * begin to assemble, join and combine materials and components with some accuracy * begin to apply a range of finishing	Year Four * select suitable tools and equipment, explain choices in relation to required techniques and use accurately *select appropriate materials, fit for purpose; explain choices * work through plan in order. * realise if product is going to be good quality * measure, mark out, cut and shape materials/components with some accuracy *assemble, join and combine materials	Year 5 * use selected tools/equipment with good level of precision * produce suitable lists of tools, equipment/materials needed *select appropriate materials, fit for purpose; explain choices, considering functionality * create and follow detailed step-by-step plan * explain how product will appeal to an audience * mainly accurately measure, mark out, cut and shape	Year 6 * use selected tools and equipment precisely *produce suitable lists of tools, equipment, materials needed, considering constraints * select appropriate materials, fit for purpose; explain choices, considering functionality and aesthetics * create, follow, and adapt detailed step- by-step plans * explain how product	Year 7Materialsresearch -Students willstudymaterials thatthey will beusing for theproduct(Variouswoods andplastics).Whatproperties dothey have?Where dothey comefrom? Whatmakes themsuitable forour product?

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chitiy sefe and hygienic "use finishing techniques to make product look good by drowing, "work safely and hygienically with some accuracy techniques combine materials/components and hygienically "accurately mak out, cut and shope materials/components and materials" "accurately apphy a range of finishing techniques "accurately mak out, cut and shope materials/components and materials" "accurately assenble, join and combined different materials" "accurately accurately assenble, join and combined finishing techniques "accurately accurately assenble, join and combined finishing techniques "accurately accurately assenble, join and combined finishing techniques "accurately accurately apphy a range of finishing techniques "accurately accurately apphy a range of finishing techniques "accurately accurately apphy a carately apphy a range of finishing techniques "accurately accurately apphy a range of finishing techniques "accurately accurately apphy a carately apphy a range of finishing techniques "accurately accurately apphy a carately apphy a carately apphy a range of finishing techniques "accurately accurately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately accurately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately accurately apphy a carately apphy a carately apphy a carately apphy a carately apphy a carately accurately apphy a carately accurately apphy a carately accurately apphy a carately accurately accurately apphy a carately accurately apphy a carately accurately accurately accurately accurately accurately accurately accurately accurately accurately accurately accurately accurately							•
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							sensibly to

			manufacture their products. They will learn to work as a team and peer assess each other's work. Assembly of product - Students will learn the correct way
			assemble products depending on the type of material used. Correct glues etc.

	Key Stage One:		Key Stage Two				
Evaluate	-explore and evaluate existing products -evaluate their ide against design crit	as and products	 -investigate and analyse a range of existing products evaluate their ideas and products against their own design consider the views of others to improve their work - understand how key events and individuals in design and technology have helped shape the world- Key Stage Three: -analyse the work of past and present professionals and others to develop and broaden their understanding in and emerging technologies -test, evaluate and refine their ideas and products against a specification, taking into account the views of into other interested groups- -understand developments in design and technology, its impact on individuals, society and the environment, and responsibilities of designers, engineers and technologists 				
EYFS	Year one	Year Two	Year Three	Year Four	Year 5	Year 6	Year 7
*Adapt work if necessary *Dismantle, examine, talk about existing objects/structures *Consider and manage some risks *Practise some appropriate safety measures independently *Talk about how things work *Look at similarities and differences between existing objects / materials / tools	*talk about my work, linking it to what I was asked to do * talk about existing products considering: use, materials, how they work, audience, where they might be used *talk about existing products, and say what is and isn't good * talk about things that	* describe what went well, thinking about design criteria * talk about existing products considering: use, materials, how they work, audience, where they might be used; express	 * look at design criteria while designing and making *use design criteria to evaluate finished product * say what I would change to make design better *begin to evaluate existing products, considering: how well they have been made, materials, whether they work, how they have been made, fit for purpose * begin to understand by whom, when and where products were designed * learn about some 	<pre>*refer to design criteria while designing and making *use criteria to evaluate product * begin to explain how I could improve original design *evaluate existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose * discuss by whom, when and where products were designed * research whether products can be recycled or reused * know about some inventors/designers/ engineers/chefs/manufacturers of ground-breaking products</pre>	*evaluate quality of design while designing and making *evaluate ideas and finished product against specification, considering purpose and appearance. *test and evaluate final product * evaluate and discuss existing products, considering: how well they've been made, materials, whether they work, how they have been made, fit for purpose * begin to evaluate how much products cost to make and how innovative they are	*evaluate quality of design while designing and making; is it fit for purpose? * keep checking design is best it can be. *evaluate ideas and finished product against specification, stating if it's fit for purpose *test and evaluate final product; explain what would improve it and the effect different resources may have had *do thorough evaluations of	Students will self- assess and peer assess each other's work and produce a short evaluation.

*Show an interest in technological toys *Describe textures	other people have made *begin to talk about what could make product better	personal opinion *evaluate how good existing products are *talk about what I would do differently if I were to do it again and why	engineers/chefs/ manufacturers of ground-breaking products	*research how sustainable materials are *talk about some key inventors/designers/ engineers/ chefs/manufacturers of ground-breaking products	existing products considering: how well they've been made, materials, whether they work, how they've been made, fit for purpose *evaluate how much products cost to make and how innovative they are *research and discuss how sustainable materials are *consider the impact of products beyond their intended purpose *discuss some key inventors/designers/ engineers/ chefs/manufacturers of ground-breaking products
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	Key Stage One :	Key Stage Two
Showledge	- build structures, exploring how they can be made stronger, stiffer and more stable	understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
O N	- explore and use mechanisms [for example, levers,	understand and use electrical systems in their products [for example, series circuits
	sliders, wheels and axles], in their products.	incorporating switches, bulbs, buzzers and motors]
3		apply their understanding of computing to program, monitor and control their products.
0		
2		Key Stage 3
$\mathbf{\Sigma}$		understand and use the properties of materials and the performance of structural
		elements to achieve functioning solutions
d		-understand how more advanced mechanical systems used in their products enable
Ŭ		changes in movement and force
5		-understand how more advanced electrical and electronic systems can be powered and
~ ~		used in their products [for example, circuits with heat, light, sound and movement as
		inputs and outputs]
Ň		-apply computing and use electronics to embed intelligence in products that respond to
		inputs [for example, sensors], and control outputs [for example, actuators], using
		Programmable components [for example, microcontrollers].

Technical knowledge - Mechanisms

EYFS Year Oi	Dne Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
which m using le sliders. •Say wh have ch moving • Know	evers andof a moving product.hy they• Explain how different parts	Make a product which uses pneumatics		Create designs that include cams, gears or pulleys.		

• Talk about how moving objects work.		
	Technical Knowledge - Electrical Con	nponents
	 make a simple circuit and add components to it Add electricity to create motion or make light. Make a product which uses both electrical and mechanical components. 	-Use a number of components in a circuit e.g. light, buzzer, motor -Use different kinds of circuits in their product to improve it. E.g. series, parallel -Incorporate a
	To know how to make a range of simple secure connections (twisting wires together, wrapping ends, taping over, connecting block)	switch into their products -assess faults in their own electrical systems

• Understand ho	w To investigate To be	-test components in a simple series circuit • use computer programming to control a circuit.
simple 3-D text products are made, using a template to create two identical shapes • join fabrics us different techniques e.g. running stitch, glue, over stitch stapling. • Explore different finishing techniques e.g. using painting, fabric crayons, stitching, sequin buttons and ribbons.	textile products that have a selection of stitches, joins, fabrics, fing finishing techniques, fastenings and purposes, linked to the product they will design, make and evaluate. To disassemble appropriate textiles products to stitfen to lean stiffen to lean stitches	iigate how and shape ledges by ng seams, k or attach ng or ning rn how to and finish row of es. wider range ching

		seam allowances. strengthen, stiffen and reinforce existing fabrics. Understand the need for patterns and seam allowances. securely join two pieces of fabric together	Develop skills of 2-D paper pattern making To pin a pattern on to fabric ensuring limited wastage, Leave a seam allowance. Use different cutting techniques.						
		using a range of stitching techniques, running stitcl back stitch, blanket stitch, cross stitch							
Structures									
make a freestanding structure from simple blocks/boxes know how to make a structure taller	 make freestanding structures stronger, stiffer and more stable join some simple materials 			Use more sophisticated methods for stiffening/strengthening structures know what a 2D net is Use tools appropriate for cutting and scoring materials.	 stiffen, strengthen and reinforce a range of 3-D frameworks know which materials are best suited to stiffen and reinforce by 				

make a structure more stable • know simp of m stru • use finis tech to co their stru • know voca relev	w a sple order making a simple ishing score complete simple to the second score complete simple to the second score scor	str	o test a material's trength se CAD to develop a roduct	 selecting them due to their properties know which shapes are the strongest and will support the most weight in a structure use a range of tools i.e. junior hacksaws, G- clamps, bench hooks, hand drills safely 	
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Cooking and Nutrition	Key stage 1 Duse the basic principles of a healthy and varied diet to prepare dishes understand where food comes		 Key stage 2 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 Key stage 3 Understand and apply the principles of nutrition and health cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet become competent in a range of cooking techniques [for example, selecting and preparing ingredients; using utensils and electrical equipment; applying heat in different ways; using awareness of taste, texture and smell to decide how to season dishes and combine ingredients; adapting and using their own recipes] understand the source, seasonality and characteristics of a broad range of ingredients. 					
EYFS	Year one	Year Two	Year Three	Year Four	Year 5	Year 6	Year 7	
Begin to understand some food preparation tools, techniques and processes *Practise stirring, mixing, pouring, blending *Discuss how to make an activity safe and hygienic *Discuss use of senses *Understand need for variety in food *Begin to understand that eating well	*describe textures *wash hands & clean surfaces *think of interesting ways to decorate food *say where some foods come from, (i.e. plant or animal) *describe differences between some food groups (i.e. sweet, vegetable etc.) *discuss how fruit and vegetables are healthy	*explain hygiene and keep a hygienic kitchen *describe properties of ingredients and importance of varied diet *say where food comes from (animal, underground etc.) *describe how food is farmed, home-grown, caught	carefully select ingredients *use equipment safely *make product look attractive *think about how to grow plants to use in cooking *begin to understand food comes from UK and wider world *describe how healthy diet= variety/balance of food/drinks *explain how food and drink are needed for active/healthy bodies. *prepare and cook some dishes safely and hygienically	explain how to be safe/hygienic *think about presenting product in interesting/ attractive ways *understand ingredients can be fresh, pre-cooked or processed *begin to understand about food being grown, reared or caught in the UK or wider world *describe eat well plate and how a healthy diet=variety / balance of food and drinks *explain importance of	*explain how to be safe / hygienic and follow own guidelines *present product well - interesting, attractive, fit for purpose *begin to understand seasonality of foods *understand food can be grown, reared or caught in the UK and the wider world *describe how recipes can be adapted to change appearance, taste, texture, aroma *explain how there are different substances in food / drink needed for health *prepare and cook a seasonal dish safely and hygienically	<pre>*understand a recipe can be adapted by adding / substituting ingredients *explain seasonality of foods *learn about food processing methods *name some types of food that are grown, reared or caught in the UK or wider world *adapt recipes to change appearance,</pre>	Equipment, Processes and Skills Pupils utilise the Food workbook to complete a range of theory activities around the themes of Equipment, Processes and Skills. Pupils will complete practical work which allows them to implement their knowledge of utilising Equipment, Processes and Skills. Hygiene & Safety. Pupils will complete practical work which allows them to implement Hygiene and Safety practices. Food	

contributes to good health	*cut, peel and grate safely, with support	*draw eat well plate; explain there are groups of food *describe "five a day" *cut, peel and grate with increasing confidence	*use the following techniques: peeling, crushing, chopping, slicing, grating, mixing, combining, shaping Under supervision use an oven to bake a product	food and drink for active, healthy bodies *prepare and cook some dishes safely and hygienically including using a grill as a heat source grow in confidence using some of the following techniques: sieving, mixing, combining, kneading, rolling and baking	including the use of oven as a heat source *accurately weigh, measure and combine ingredients * use range of techniques such as mixing, , kneading, rolling baking, * portion and divide ingredients	taste, texture or aroma. *describe some of the different substances in food and drink, and how they can affect health *prepare and cook a savoury dish safely and hygienically including using a hob as a heat source. * accurately weigh and measure ingredients *use a range of techniques in preparing food: such as peeling, chopping, slicing, grating, Use a range of techniques in combining food : mix, combine, blend, puree,	Sources & Availability and Sensory/Organoleptic Evaluation Pupils utilise the Food workbook to complete a range of theory activities focussing on where food ingredients are sourced, how ethically and sustainably they are sourced and how the senses are used to judge foods in relation to customer acceptability. Pupils utilise the Food workbook to complete a range of theory activities which focus around effective nutrition and healthy eating. Pupils will complete practical work which allows them to consider effective nutrition in practice and to further their utilisation of Hygiene & Safety in practice, Independence and Competency.
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			Use a range of	
			cooking	
			techniques;,	
			simmer/boil/bake	