DESIGN TECHNOLOGY SKILLS PROGRESSION



Twineham CofE School



Nurture Togetherness Resilience Creativity

KS1	Year 1	Year 2
Developing, planning and communicating ideas	Think of some ideas of their own	Think of ideas and plan what to do next
	Explain what they want to do	Choose the best tools and materials Give a reason why these are best
	Use pictures and words to plan	Describe their design by using pictures, diagrams, models and words
	Challenge: Come up with a range of possible solutions to a problem	Challenge: Explain why they disregarded some tools/materials
Working with tools,	Explain what they are making	Join things (materials/ components) together in different ways
equipment, materials &	Explain which tools are they using	Challenge: Use a variety of appropriate joins successfully
components to make	Challenge: Name tools and their uses	
quality products		
Evaluating processes	Describe how something works	Explain what went well with their work
	Talk about their own work and things that other people have done	If they did it again, explain what would they want to improve
and products	Challenge: Suggest an alternative design/process to improve their work	Challenge: How did they adapt their design as they worked?
	Cut food safely	Explain what it means to be hygienic
Cooking and nutrition	Describe the texture of foods	Be hygienic in the kitchen
	Wash their hands and make sure that surfaces are clean	Know where food comes from
	Think of interesting ways of decorating food they have made, eg, cakes	
Textiles	Describe how different textiles feel	Measure textile
Textiles	Make a product from textile by gluing	Join textiles together to make something cut textiles
		Explain why they chose a certain textile
Mechanisms	Make a product which moves	Join materials together as part of a moving product
	Cut materials using scissors	Add some kind of design to their product
	Describe the materials using different words	
	Say why they have chosen moving parts	
Use of materials	Make a structure/model using different materials	Measure materials to use in a model or structure
	Work tidily	Join material in different ways
	Make their model stronger if it needs to be	Use joining, folding or rolling to make it stronger
Construction	Talk with others about how they want to construct their product	Make sensible choices as to which material to use for their
	Select appropriate resources and tools for their building projects	constructions
	Make simple plans before making objects, e.g. drawings, arranging	Develop their own ideas from initial starting points
	pieces of construction before building	Incorporate some type of movement into models
		Consider how to improve their construction

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LKS2	Year 3	Year 4
Developing, planning and communicating ideas	Show that the design meets a range of requirements	How to check if their design is successful
	Put together a step-by-step plan which shows the order and also what	Begin to explain how they can improve their original design
	equipment and tools are needed	Evaluate their product, thinking of both appearance and the way it works
	Describe their design using an accurately labelled sketch and words	Consider how they could have made their idea better
	Be realistic with their plan	Challenge: Suggest alternative designs and evaluate them
	Challenge: Prioritise their design requirements	
	Use equipment and tools accurately	Tell if their finished product is going to be good quality
Working with tools,	Challenge: Measure accurately and avoid wasting materials	Be aware of the need to produce something that will be liked by others
equipment, materials &		Show a good level of expertise when using a range of tools and equipment
components to make		Work at their product even though their original idea might not have
quality products		worked
		Challenge : Evaluate their design from another person's point of view
Evaluating processes and products	Explain what was changed which made the design even better	How to check if their design is successful
	Challenge: Suggest further changes to improve appearance	Begin to explain how they can improve their original design
		Evaluate their product, thinking of both appearance and the way it works
		Consider how they could have made their idea better
		Challenge: Check and adapt their work as they go along
	Choose the right ingredients for a product	Be hygienic and safe
	Use equipment safely	Present their product in an interesting way
Cooking and nutrition	Make sure that the product looks attractive	
	Describe how combined ingredients come together	
	Set out to grow plants such as cress and herbs from seed with the	
	intention of using them for the food product	
	Join textiles of different types in different ways	Consider what the user would want when choosing textiles
Textiles	Choose textiles both for their appearance and also qualities	How to make their product strong
		Devise a template
		Explain how to join things in a different way
Electrical and	Select the most appropriate tools and techniques to use	Add things to their circuits
Mechanical	Make a product which uses both electrical and mechanical	Alter their product after checking it
Components	components	Be confident about trying out new and different ideas
	Use a simple circuit	
Stiff and flexible sheet materials	Do they use the most appropriate materials	Measure carefully to ensure there are no mistakes
	Work accurately to make cuts and holes	Make their product strong
	Join materials	
Mouldable materials	Select the most appropriate materials	Use a range of advanced techniques to shape and mould
	Use a range of techniques to shape and mould	Use finishing techniques, showing an awareness of audience
	Use finishing techniques	

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UKS2	Year 5	Year 6
Developing, planning and communicating ideas Working with tools, equipment, materials	Come up with a range of ideas after collecting information Take a user's view into account when designing Produce a detailed step-by-step plan Suggest some alternative plans and say what the good points and drawbacks are about each Challenge: Draw their plan to scale Explain why their finished product is going to be of good quality Explain how their product will appeal to the audience	Use a range of information to inform their design Use market research to inform plans Work within constraints Follow and refine their plan if necessary Justify their plan to someone else Consider culture and society in their designs Challenge: Present/advertise/promote their idea to 'sell' it to a company/buyer Use tools and materials precisely Change the way they are working if needed
and components to make quality products	Use a range of tools and equipment expertly Persevere through different stages of the making process Challenge: Predict the risks involved in using different tools	Challenge: Train others to use tools and materials precisely
Evaluating processes and products	Check that their design is the best it can be Check whether anything could be improved Evaluate appearance and function against the original criteria Challenge: Identify the successes and if it is fit for purpose	Test and evaluate their final product Ensure their product is fit for purpose Identify what would improve their product Evaluate if different resources would have improved their product Evaluate if more or different information would make it even better Check their product meet all design criteria Consider the use of the product when selecting materials Challenge: Research and compare similar products on the market and identify how theirs compare
Cooking and nutrition	Describe what they do to be both hygienic and safe Present their product well	Explain how their product should be stored with reasons Set out to grow their own products with a view to making a salad, taking account of time required to grow different foods
Textiles	Think what the user would want when choosing textiles Make their product attractive and strong Make up a prototype first Use a range of joining techniques	Consider about how their product could be sold What would improve their product even more
Electrical and Mechanical Components	Incorporate a switch into their product Refine their product after testing it Incorporate hydraulics and pneumatics	Use different kinds of circuit in their product Identify ways in which adding a circuit would improve their product
Stiff and flexible sheet materials	Accurate measurements to ensure that everything is precise Ensure their product is strong and fit for purpose	Justify why they selected specific materials Ensure their work is precise and accurate Hide joints so as to improve the look of their product
Mouldable materials	Be motivated to refine and further improve their product using mouldable materials	Refine and further improve their product using mouldable materials Justify why the chosen material was the best for the task Justify design in relation to the audience