

Objectives:							
 design purposeful, fu themselves and other generate, develop, i through talking, draw where appropriate, i technology select from and use perform practical ta joining and finishing] select from and use components, includi and ingredients, acc 	Design Inctional, appealing r users based on des nodel and commun ing, templates, mod formation and com Make a range of tools and ks [for example, cut a wide range of mat ng construction mate ording to their charce	Object products for sign criteria icate their ideas ck-ups and, amunication equipment to ting, shaping, erials and erials, textiles acteristics.	Evaluate Evaluate Evaluate Sector and evaluate a range of existing products 6. explore and evaluate their ideas and products against design criteria Technical knowledge 7. build structures, exploring how they can be made stronger, stiffer and more stable 8. explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. Cooking and Nutrition 9. understand and apply the principles of a healthy and varied diet 10. prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques 11. understand seasonality, and know where and how a				
Developing, planning and Communicating ideas Morking with tools, equip		ools, equipment, components to	processed. Food and nutrition products Food and nutrition			d nutrition	
Yoar 5 Yoar 6	Yoar 5	ity products	Vogr 5	Vogr (Vogr 5	Voor (
Team of Team of Start to generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pottern pieces and CAD.Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, path pieces and CAD.Begin to use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.Use research and develop design of innovative, functional, appealing products that are fit for purpose.With growing confidence apply a range of finishing techniques, including those from art and designDraw up a specification for their design-link with Mathematics and Science.Use results of investigations, information goucts cost to make, how sustainable and innovative they are and the impact products cost to make, howDraw up a specification for their design-link with Mathematics and techniques.With growing confidence select appropriate materials, tools and techniques.Draw up a specification for their design-link with Mathematics and techniques.With growing confidence select appropriate materials, tools and techniques.Identify the strengths and areas for development in their intended purpose.With growing confidence select appropriate materials, tools and techniques.Know how much products have beyond their intended purpose.With dreimide intended purpose.Know how much 	Teda 3Select appropriate materials, tools and techniques e.g. 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.aUnderstand how mechanical systems such as cams or pulleys or gears create movement.aWhitestand how mechanical systems such as cams or pulleys or gears create movement.aUnderstand how mechanical asystems such as cams or pulleys or gears create movement.aUnderstand how mechanical asystems such as cams or pulleys or gears create movement.bUnderstand how mechanical asystems such as camponents can be used to create functional products and how to program a computer to monitor changes in the environment and control their products.reUnderstand that mechanical and electrical systems have an input, process and output.Begin to measure and accurately.Demonstrate how to use skills in using different tools and equipment safely and accuratelyyWith growing confidence cut and join with accuracy to ensure a good- quality finish to the productyWeigh and measure	Confidently select appropriate tools, materials, components and techniques and use them. Use tools safely and accurately. Assemble components to make working models. Aim to make and to achieve a quality product. With confidence pin, sew and stitch materials together to create a product. Demonstrate when make modifications as they go along. Construct products using permanent joining techniques. Understand how mechanical systems such as cams or pulleys or gears create movement. Know how more complex electrical circuits and components can be used to create functional products. Know how to reinforce and strengthen a 3D framework. Understand that mechanical and electrical systems have an input, process and output. Use finishing techniques to strengthen and	Start to evaluate a product against the original design specification and by carrying out tests. Evaluate their work both during and at the end of the assignment. Begin to evaluate it personally and seek evaluation from others. Evaluate the key designs of individuals in design and technology has helped shape the world.	Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests. Evaluate their work both during and at the end of the assignment. Record their evaluations using drawings with labels. Evaluate against their original criteria and suggest ways that their product could be improved. Evaluate the key designs of individuals in design and technology has helped shape the world.	Understand that 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. Begin to understand that seasons may affect the food available. Understand how food is processed into ingredients that can be eaten or used in cooking. Know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source Start to understand how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking. Begin to understand that different substances – nutrients, water and fibre – that are needed for health.	Know that food is grown (such as tomatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world. Understand that seasons may affect the food available. Understand how food is processed into ingredients that can be eaten or used in cooking. Know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source Understand how fo use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking. Know different substances – nutrients, water and fibre – that are needed for health.	



Autumn 1 Theme:	dry ingredie liquids). Use finishing techniques strengthen a improve the appearanc their produc a range of equipment including IC Autumn 2 Theme:	nts, appearance of their product using a range of equipment including ICT.	thieve these ar 5 Spring 2 Make a Roman Snack	Summer 1 Creating a river	Summer 2 Create an Anglo Saxon pouch
NC Reference:	NC Reference:	NC Reference: D1, M3, M4, E6, T7, T8	NC Reference: D1, M4, E5, E6, C9, C10, C11	NC Reference: D2, M3, M4, E5, E6, T7	NC Reference: D1, M3, M4, E6,
Skills:	Skills: Image: Skills in the second	Skills: Begin to use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose. Start to generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and CAD. Draw up a specification for their design-link with Mathematics and Science. Use results of investigations, information sources, including ICT when developing design ideas. With growing confidence select appropriate materials, tools and techniques. Select appropriate materials, tools and techniques e.g. 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. Begin to measure and mark out more accurately. Demonstrate how to use skills in using different tools and equipment safely and accurately With growing confidence cut and join with accuracy to ensure a good-quality finish to the product Evaluate their work both during and at the end of the assignment. Begin to evaluate it personally and seek evaluation from others.	Skills: Start to understand how much products cost to make, how sustainable and innovative they are and the impact products have beyond their intended purpose. measure accurately (time, dry ingredients, liquids). Evaluate the key designs of individuals in design and technology has helped shape the world. Understand that 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. Begin to understand that seasons may affect the food available. Know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source Start to understand how to use a range of techniques such as chopping, slicing, mixing and spreading. Begin to understand that different food and drink contain different substances – nutrients, water and fibre – that are needed for health.	Skills: With growing confidence apply a range of finishing techniques, including those from art and design Draw up a specification for their design-link with Mathematics and Science. Use results of investigations, information sources, including ICT when developing design ideas. With growing confidence select appropriate materials, tools and techniques. Select appropriate materials, tools and techniques e.g. 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 Begin to measure and mark out more accurately. Demonstrate how to use skills in using different tools and equipment safely and accurately With growing confidence cut and join with accuracy to ensure a good-quality finish to the product Start to evaluate a product against the original design specification and by carrying out tests. Evaluate their work both during and at the end of the assignment.	Skills: Begin to use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose. With growing confidence apply a range of finishing techniques, including those from art and Select appropriate materials, tools and techniques e.g. 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 qualifies Begin to measure and mark out more accurately. Demonstrate how to use skills in using different tools and equipment safely and accurately With growing confidence cut and join with accuracy to ensure a good-quality finish to the product Start to evaluate a product against the original design specification and by carrying out tests.

UKS2 Design Technology



Voodbuldny	Vocabulant	Veedbulang	Veedbulang	Veeebuleng	Vacabulan
vocabulary:	vocabulary:	Machine	Mixing	Construct	Innovative
		Annotate	Slicing	Cross-sectional	loining
		Sequenced	Chopping	Criteria	Textiles
		Complicated	Spreading	CAD	Fabrication
		Evaluation	Savoury	Materials	Wegve
		Development	Hygienically	Shaping	Product
			Bacteria	Finishing	Functional
			Substance	Aesthetic	
			Fibre		
			Nutrient		
	1	Yeo	ar 6		
Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme:	Theme'	Theme:	Theme:	Theme:	Theme:
Greeks – Making tzatziki	Dinosaurs		Electricity – Making board		Wider world – Trading –
			games		Making bread
NC Reference:		NC Reference:	NC Reference:	NC Reference:	NC Reference:
D1, M4, E5, C10			D2, M3, M4, T8, E5, E6		D1, M4, E5, C10, C9
Skills:		Skills:	Skills:	Skills:	Skills:
Use research and develop			Generate, develop, model		Know how much products
design criteria to inform			and communicate their		cost to make, how
the design of innovative,			ideas through discussion,		sustainable and innovative
functional, appealing			annotated sketches, cross-		they are and the impact
products that are in for			diagrams prototypes		their intended purpose
poipose.			pattern pieces and CAD		men mended polpose.
Evaluate their products,			parloin pieces and exe.		Aim to make and to
identifying strengths and			Draw up a specification		achieve a quality product.
areas for development,			for their design- link with		
and carrying out			Mathematics and Science		Record their evaluations
appropriate tests.			Plan the order of their		using drawings with labels.
Understand how food is			work choosing		Evaluate against their
processed into ingredients			appropriate materials,		original criteria and
that can be eaten or used			tools and techniques.		suggest ways that their
in cooking.			Suggest alternative		product could be
			methods of making if the		improved
know now to prepare and			first attempts fail.		
predominantly sayouny			appropriate tools		Know how to prepare and
dishes safely and			materials, components		cook a variety of
hygienically including,			and techniques and use		dishes safely and
where appropriate, the			them.		hygienically including,
use of a heat source					where appropriate, the
the elementary of the state to the state of			Use tools sately and		use of a heat source
range of techniques such			accurately.		
as peeling, chopping			Assemble components to		understand now to use d
slicina, aratina, mixina,			make working models.		as peeling, chopping
spreading, kneading and					slicina, aratina, mixina,
baking.			Aim to make and to		spreading, kneading and
			achieve a quality product.		baking.
			Know how more complex		
			electrical circuits and		drink contain different
			components can be used		substances – nutrients
			to create functional		water and fibre – that are
			products and now to		needed for health.
			monitor changes in the		
			environment and control		
			their products.		
			Know how to reinforce		
			framework		
			Hamowork.		
			Understand that		
			mechanical and electrical		
			systems have an input,		
			process and output.		
			Evaluate their products,		
			identifying strengths and		
			areas for development,		
			and carrying out		
			appropriate tests.		
			Evaluate their work both		
			during and at the end of		
			the assignment.		
Vocabulary:			Vocabulary:		Vocabulary:
Purpose, Manipulate Drv			Component		Savoury
Media, Wet Media, Digital			Bespoke		Proving
Media. Warp, Bespoke			Annotate		Kneading
Aesthetics, net, Harmony,			Prototype		Recipe
Composition, Mood,			Refine		Knocking back
Abstract, garnish			Innovative		Glazing
quality assurance,			specification		
and alter Reflecting			assemble		veast
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