# **Design & Technology Curriculum Objectives 2022-2023**

	1	2	3		4	5	6		
	What the N	ational Curriculum	What the Nationa	al Curriculum		•	•		
National	requires in	design and technology at	requires in design	n and technology	at KS2				
	KS1		When designing a	and making, pupil	ls should be ta	nught to:			
Curriculum	When desig	ning and making, pupils	Design						
Objectives	should be to	aught to:	Use research and develop design criteria to inform the design of innovative, functional,						
	Design		<ul> <li>appealing products that are fit for purpose, aimed at particular individuals or groups</li> <li>Generate, develop, model and communicate their ideas through discussion, annotated</li> </ul>						
		oseful, functional, appealing							
	· •	r themselves and other users		•	l and exploded	d diagrams, prototypes, pa	ittern pieces and		
		esign criteria		ter-aided design					
		evelop, model and	Make Soloet fo	rom and use a wi	idar ranga af t	aals and aquinment to no	rform practical tacks		
		te their ideas through wing, templates, mock-ups			-	ools and equipment to pe and finishing], accurately	rioriii practicai tasks		
	Ç,	appropriate, information	-			naterials and components	including construction		
		nication technology			•	cording to their functional			
	Make	median teemiology		ic qualities	igi caiciits, acc	ording to their randictional	properties and		
		and use a range of tools and	Evaluate						
		to perform practical tasks	<ul> <li>Investig</li> </ul>	gate and analyse a	a range of exis	sting products			
	[for example	e, cutting, shaping, joining	Evaluate	e their ideas and	products agai	nst their own design criter	ria and consider the		
	and finishin	g]		f others to impro					
	<ul> <li>Select from</li> </ul>	and use a wide range of	,				ology have helped shape		
		nd components, including	the world						
		n materials, textiles and	Technical knowledge						
		according to their	Apply their understanding of how to strengthen, stiffen and reinforce more complex						
	characterist	ICS	structur • Underst		-1	and the theory and the fifteen			
	• Evaluate	avaluate a range of existing			-	ms in their products [for e	xampie, gears, pulleys,		
	products	evaluate a range of existing		evers and linkage		in their products [for exa	mnle series circuits		
	· •	eir ideas and products		rating switches, I			imple, series circuits		
	against desi	· ·				ng to program, monitor an	d control their		
	Technical knowledge	<u> </u>	product			.g to program, moment an			
		ures, exploring how they can							
		onger, stiffer and more	What the Nationa	al Curriculum					
	stable	_	requires in cookir	ng and nutrition	at KS2				
	<ul> <li>Explore and</li> </ul>	use mechanisms [for	Key stage 2						
	example, le	vers, sliders, wheels and	<ul> <li>Underst</li> </ul>	tand and apply th	ne principles o	f a healthy and varied diet	:		
	axles], in the	eir products.	•		ety of predomi	inantly savoury dishes usir	ng a range of cooking		
			techniq						
	What the National Cu			-		ere and how a variety of i	ngredients are grown,		
	requires in cooking a		reared,	caught and proce	essed.				
	Pupils should be taught to:								
	Key stage 1	ic principles of a healthy and							
		ic principles of a healthy and to prepare dishes							
		where food comes from.							
	Uniderstand	where room comes morn.	I						

### Redwell Design & Technology LTP 2022-23

Year	EYFS	1	2	3	4	5	6
Group							
DT Focuses	3D Models Food Technology Textiles						

Year Group	R	1	2	3	4	5	6
Autumn 1	You've Got a Friend in Me	5 Senses 3D Models	Pirates	India Textiles	Africa 3D Models	Macbeth 3D Models	Woeful Wars (WW1 and WW2)
Autumn 2	How Far Will I Go?	Explorers Food Technology	Victorians Textiles	Stone Age	Rainforest	Raging Rivers	Magnificent Mountains
Spring 1	To Infinity and Beyond	Fire Fire	China Food technology	Extreme Earth: Volcanoes and Earthquakes 3D Models	Fantastic Beasts	Anglo Saxons Textiles	Vikings 3D Models
Spring 2	The Land Before Time	How does your garden grow?	Arctic/ Antarctic	Robots	Romans Food Technology	Ancient Greeks Food Technology	Frozen Kingdoms Textiles
Summer 1	Rumble in The Jungle	Toy Story Textiles	Castles 3D models	Chocolate Food Technology	Tudors Textiles	Space	British Empire
Summer 2	Once Upon a Time	What a wonderful world	Madagascar	Ancient Egypt	Urban life and Diversity	Endangered Earth	Mayans Food Technology

# Redwell Design & Technology LTP 2022-23

Year Group	1	2	3	4	5	6
Knowledge  Design Make Evaluate Technical Knowledge Cooking and Nutrition	I know how to design a product for myself, following design criteria.  I know how to use pictures and words to make a simple plan before making. I can begin to use hand tools and kitchen equipment safely and appropriately. I can learn to follow simple hygiene procedures. I can talk about pre-existing products, saying what is good or bad about them. I know if my product does what it is meant to (fits the design brief) and how it could be improved. I am beginning to understand how to make a 3D model stronger. I can describe simple features of the materials I am using. I can list different types of mechanisms, e.g. levers, sliders and wheels. I can begin explain where some foods in the world originate from. I understand that all food comes from plants or animals. I can name and sort foods into groups. I understand that everyone should eat at least five portions of fruit and vegetables every day.	I know how to create designs using pictures, diagrams, models, mock-ups, words and ICT. I know what tools and materials to use and can explain why I have chosen them. I can learn to use hand tools and kitchen equipment safely and appropriately. I can explain how to use a needle safely. I can learn to follow simple hygiene procedures. I can discuss positives and things to improve for existing products. I can talk about my design ideas and what I am making. I can list ways to make a 3D model stronger. I can describe different features of the materials I am using. I can list different types of mechanisms, e.g. levers, sliders and wheels, and explain how they work. I can explain where in the world different foods originate from. I can explain where in the world different foods originate from. I can explain that all food comes from plants or animals and give examples of each. I understand that food has to be farmed, grown elsewhere (e.g. home) or caught. I can name and sort foods into the five groups in the Eatwell Guide. I understand that everyone should eat at least five portions of fruit and vegetables every day and start to explain why I can use what I know about the Eatwell Guide to design and prepare dishes.	I can use my knowledge of a broad range of existing products to help me generate ideas. I can explain how particular parts of my products work. I can describe how my design meets a set criteria. I know why it's important to test ideas before making. I can place the main stages of making in a systematic order. I can learn to use a range of tools and equipment safely, appropriately and mostly accurately. I can learn to follow hygiene procedures. I understand the importance of creating a product that is aesthetically pleasing. I can consider my design criteria as I make progress and am willing to alter my plans if this helps to improve the product. I understand that materials have both functional properties and aesthetic qualities. I can begin to explain how mechanical systems such as levers and linkages create movement. I am beginning to understand the principles of a healthy and varied diet. I can begin to explain when, where and how some food is grown (such as herbs, tomatoes and strawberries) in the UK, Europe and the wider world. I understand how to prepare and cook a savoury dish safely and hygienically. I can explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide. I understand that to be active and healthy, nutritious food and drink are needed to provide energy for the body.	I can describe and prove how my design meets a set criteria. I can list the design features of my products that will appeal to intended customers. I can explain why it's important to test ideas out using prototypes. I can place the main stages of making in a systematic order and explain my choices. I can learn to use a range of tools and equipment safely, appropriately and accurately. I can learn to follow hygiene procedures. I can explain how to create a product that is aesthetically pleasing. I can consider my design criteria as I make progress and am willing to alter my plans, sometimes considering the views of others if this helps to improve the product. I understand how mechanical and electrical systems have an input and output process. I can explain how mechanical and electrical systems such as levers and linkages create movement. I am beginning to understand and apply the principles of a healthy and varied diet. I am beginning to understand seasonality, and know where and how some ingredients are grown, reared, caught and processed. I can begin to explain when, where and how food is grown in the UK, Europe and the wider world. I understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically. I can explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide, and I am able to apply these principles when planning and cooking dishes.	I can come up with a range of ideas for an item after collecting information from different sources. I can explain how a product will appeal to a specific audience. I can explain how each part of my product works. I can use my knowledge to independently plan by suggesting what to do next. I can learn to use a wide range of tools and equipment safely, appropriately and accurately. I can learn to follow hygiene procedures and explain why they are important. I understand the importance of reviewing each construction phase to ensure that each part works and is secure to achieve a fully effective end product. I understand and can begin to demonstrate that mechanical and electrical systems have an input, process and output. I can begin to explain how mechanical systems, such as cams, create movement and use mechanical systems in their products. I understand and can apply the principles of a healthy and varied diet. I understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. I understand how seasonality may affect food availability and can begin to plan recipes using my knowledge. I know, explain and give some examples of food that is grown (such as pears, wheat and potatoes), reared (such as poultry and cattle) and caught (such as fish) in the UK, Europe and the wider world. I understand that food is processed into ingredients that can be eaten or used in cooking.	I know how to use market research to inform my plans and ideas for an item (i.e. market research using surveys, interviews, questionnaires or web based resources). I can explain and justify how a product will appeal to a specific audience. I can use my knowledge to independently plan by suggesting what to do next. I can learn to use a wide range of tools and equipment safely, appropriately and accurately. I can learn to follow hygiene procedures and explain why they are important. I know how products should be stored and give reasons. I know how to work within a budget. I can explain the importance of reviewing each construction phase to ensure that each part works and is secure to achieve a fully effective end product. I understand and can demonstrate that mechanical and electrical systems have an input, process and output. I can explain how mechanical systems, such as cams, create movement and use mechanical systems in their products. I can explain and apply the principles of a healthy and varied diet. I can explain seasonality, and know where and how a wide variety of ingredients are grown, reared, caught and processed. I understand how seasonality may affect food availability and can plan recipes according to seasonality. I know, explain and give a range of examples of food that is grown (such as pears, wheat and potatoes), reared (such as poultry and cattle) and caught (such as fish) in the UK, Europe and the wider world. I can explain that foods contain different substances, such as protein, that are needed for health and be able to apply these principles when planning and preparing dishes.

ear Group	1	2	3	4	5	6
•	I can design appealing products	I can design a product for myself	I can begin to develop and follow	I can develop and follow simple	I can create my own set criteria to	I can develop detailed design
	for a particular user based on	and others, following design	simple design criteria.	design criteria.	inform my design of a product.	criteria to inform the design of
	simple design criteria.	criteria.	I can describe a design using	I can use annotated sketches and	I can generate a range of design	innovative, functional and
	I can think of my own ideas to make something.	I can think of my own ideas using my knowledge of existing	accurately labelled diagrams. When designing, I can generate	cross-sectional drawings to develop and communicate my	ideas and clearly communicate final designs.	appealing products that are fit purpose and aimed at a target
kills	I can describe how something	products and plan what to do	more that one initial ideas before	ideas.	I can design innovative and	market.
<u></u>	works.	next.	coming up with a final design.	When designing, I can explore	appealing products that have a	I can generate a wide range of
	I can explain to someone else how	I can explain how my product will	When planning, I can start to	different initial ideas before	clear purpose and are aimed at a	design ideas and clearly
esign	I want to make my product.	look and work through talking and	explain my choice of materials	coming up with a final design.	specific user.	communicate final designs.
ake	I can work in some relevant	simple annotated drawings.	and components.	With support, I can produce a	I can produce a detailed plan,	I can use annotated sketches,
aluate	contexts, for example imaginary,	I can work in a range of relevant	With help, I can create a simple	detailed plan with labelled	with step-by-step instructions,	cross-sectional drawings and
chnical Knowledge	story-based, home, school and the wider environment.	contexts, for example imaginary, story-based, home, school and	step-by-step plan, choosing the right equipment and materials.	diagrams, a written explanation and step-by-step guide, explaining	crosssectional diagrams and prototypes.	exploded diagrams (possibly including computer-aided desi
oking and Nutrition	With support, I can follow a	the wider environment.	I can begin to work in a broader	my choice of materials and	I can suggest alternative plans,	to develop and communicate
oking and Natrition	simple plan or recipe.	I can follow a simple plan or	range of relevant contexts, for	components.	considering the positive aspects	ideas, including the use of
	I can begin to select hand tools	recipe.	example entertainment, the	I can work in a broader range of	and drawbacks of each.	prototypes.
	and equipment, such as scissors,	I can begin to select from a range	home, school, leisure, food	relevant contexts, for example	I can begin to consider the	I can work within constraints,
	graters and safe knives.	of hand tools and equipment,	industry and the wider	entertainment, the home, school,	availability and costings of	refining and justifying plans as
	I can select from a range of	such as scissors, graters, zesters,	environment.	leisure, food industry and the	resources when planning out	necessary.
	materials, textiles and	safe knives and juicers.	With some confidence, I can	wider environment.	designs.	I can to consider the availability
	components. I can use simple materials and	I can select from a range of materials, textiles and	carefully select from a range of tools and equipment.	With some confidence, I can carefully select from a range of	I can work in a broad range of relevant contexts, for example	and costings of resources who planning out designs.
	components, including textiles	components according to their	I can select from a range of	tools and equipment, explaining	conservation, the home, school,	I can work in a broad range of
	and food ingredients.	characteristics.	materials and components	my choices.	leisure, culture, enterprise,	relevant contexts, for example
	With help, I can measure and	I can use a range of materials and	according to their aesthetic	I can select from a range of	industry and the wider	conservation, the home, scho
	mark out materials and	components, including textiles	qualities.	materials and components	environment.	leisure, culture, enterprise,
	ingredients.	and food ingredients.	I can use a wider range of	according to their aesthetic	With growing confidence, I can	industry and the wider
	I can cut, shape and score	With some guidance, I can	materials and components,	qualities.	select from a wide range of tools	environment.
	materials.	measure and mark out materials	including construction materials	I can use a wider range of	and equipment, explaining my	I can confidently select from a
	I can assemble, join and combine	and ingredients.	and kits, textiles, mechanical	materials and components,	choices.	wide range of tools and
	materials, components or ingredients.	I can cut, shape and score materials with some accuracy.	components and food ingredients. With support, I can measure and	including construction materials and kits, textiles, mechanical and	I can select from a range of materials and components	equipment, explaining my cho clearly.
	I can cut, shape and join fabric to	I can assemble, join and combine	mark out to the nearest cm and	electrical components and food	according to their functional	I can select from a range of
	make a simple product.	materials, components or	mm.	ingredients.	properties and aesthetic qualities.	materials and components
	With help, I can use a basic	ingredients.	I can cut, shape and score	With growing independence, I can	I can independently take exact	according to their functional
	running stitch.	I can demonstrate how to cut,	materials with some degree of	measure and mark out to the	measurements and mark out,	properties and aesthetic qual
	With help, I can cut, peel and	shape and join fabric to make a	accuracy.	nearest cm and mm.	mostly accurately, to within 1mm.	I can independently take exact
	grate ingredients, including	simple product.	I can assemble, join and combine	I can cut, shape and score	I can use a full range of materials	measurements and mark out,
	measuring and weighing	I can manipulate fabrics in simple	material and components with	materials with a growing degree	and components, including	within 1mm.
	ingredients using measuring cups.	ways to create the desired effect.	some degree of accuracy.	of accuracy.	construction materials and kits,	I can use a full range of mater
	I can begin to use simple finishing techniques to improve the	I can use a basic running stitch. I can cut, peel and grate	I can demonstrate how to measure, cut, shape and join	I can assemble, join and combine material and components with a	textiles, mechanical components and food ingredients.	and components, including construction materials and kit
	appearance of their product, such	ingredients, including measuring	fabric with some accuracy to	growing degree of accuracy.	I can cut a range of materials with	textiles, mechanical compone
	as adding simple decorations.	and weighing ingredients using	make a simple product.	I can demonstrate how to	accuracy.	and food ingredients.
	I can explore what	measuring cups.	I can join textiles with an	measure, cut, shape and join	I can shape and score materials	I can cut a range of materials
	materials/ingredients products	I can begin to use simple finishing	appropriate sewing technique.	fabric with growing accuracy to	with accuracy.	precision and accuracy.
	are made from.	techniques to improve the	I can use running stitch (Y1&2)	make a simple product.	I can assemble, join and combine	I can shape and score materia
	While working, I can start to	appearance of their product, such	and backstitch (Y3).	I can join textiles with an	materials and components with	with precision and accuracy.
	identify strengths and possible	as adding simple decorations.	I can begin to select and use	appropriate sewing technique.	accuracy.	I can assemble, join and comb
	changes I might make to refine	I can explore and evaluate	different finishing techniques to	I can use running stitch (Y1&2),	I can demonstrate how to	materials and components wi
	my existing design.  I can begin to build simple	existing products mainly through discussions, comparisons and	improve the appearance of a product such as tie-dye and fabric	backstitch (Y3) and overstitch	measure, tape, pin, cut, shape and join fabric with precision to	accuracy. I can demonstrate how to
	structures, exploring how they	simple written evaluations.	paints.	(Y4). I can begin to select and use	make a more complex product.	measure, make a seam allow
	can be made stronger, stiffer and	I can explore what	I can explore and evaluate existing	different and appropriate	I can join textiles using a greater	tape, pin, cut, shape and join
	more stable.	materials/ingredients products	products, explaining the purpose	finishing techniques to improve	variety of stitches, such as	fabric with precision to make
	I can talk about and start to	are made from and discuss my	of the product and whether it is	the appearance of a product such	running stitch (Y1&2), backstitch	more complex product.
	understand the simple working	ideas.	designed well to meet the	as hemming, tie-dye, fabric paints	(Y3), overstitch (Y4) and whip	I can join textiles using a grea
	characteristics of materials and	While working, I can start to	intended purpose.	and digital graphics.	stitch (Y5).	variety of stitches, such as
	components.	identify strengths and possible	I can explore what	I can explore and evaluate	I can refine the finish using	running stitch (Y1&2), backst
	I can begin to explore and create	changes I might make to refine	materials/ingredients products	existing products, explaining the	techniques to improve the	(Y3), overstitch (Y4), whip stit (Y5) and blanket stitch (Y6).
	products using mechanisms, such as levers, sliders and wheels.	my existing design. I can evaluate my products and	are made from and suggest reasons for this.	purpose of the product and whether it is designed well to	appearance of my product, such as a more precise scissor cut after	I can refine the finish using
	I can begin to use the basic	ideas against a simple design	I can evaluate my product against	meet the intended purpose.	roughly cutting out a shape.	techniques to improve the
	principles of a healthy and varied	criteria.	the original design criteria.	I can explore what	I can complete competitor	appearance of my product, su
	diet to prepare dishes.	I can build simple structures,	I can begin to evaluate key events,	materials/ingredients products	analysis of other products on the	as a more precise scissor cut
	With support, I can use simple	exploring how they can be made	including technological	are made from and suggest	market.	roughly cutting out a shape o
	utensils and equipment to cut,	stronger, stiffer and more stable.	developments, and designs of	reasons for this.	I can critically evaluate the quality	sanding.
	squeeze and grate safely.	I can describe and explain the	individuals that have helped	I can evaluate my product against	of design, manufacture and	I can complete detailed
		simple working characteristics of	shape the world.	the original design criteria.	fitness for purpose of products as	competitor analysis of other
	1	materials and components.	I can apply my understanding of how to strengthen, stiffen and	I can evaluate key events, including technological	I design and make.	products on the market.

I can explore and create products using mechanisms, such as levers, sliders and wheels. I can use the basic principles of a healthy and varied diet to prepare dishes. I can use simple utensils and equipment to peel, cut, slice, squeeze, grate and chop safely.	reinforce more complex structures in order to create more sturdy products. I can begin to use mechanical systems in my products. With support, I can prepare and cook a savoury dish using a range of cooking techniques. With support, I can use a heat source to cook ingredients. I can use a range of techniques, such as mashing, whisking, crushing, grating, cutting, kneading and baking. I can prepare ingredients using appropriate cooking utensils. With support, I can measure and weigh ingredients to the nearest gram and millilitre. I can begin to independently follow a recipe.	developments, and designs of individuals that have helped shape the world. I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more sturdy products. I can make and represent simple electrical circuits, such as a series and parallel, and components to create functional products. I can use mechanical systems in my products. With support, I can prepare and cook more than one savoury dish using a range of cooking techniques. With support, I can use a heat source to cook ingredients, showing awareness of the need to control the temperature of the hob and/or oven. I can independently use a range of techniques, including mashing, whisking, crushing, grating, cutting, kneading and baking. I can prepare ingredients using appropriate cooking utensils. I can measure and weigh ingredients to the nearest gram and milliliter.	I can evaluate my ideas and products against the original design criteria, making changes as needed. I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products. I can begin to apply my understanding of computing to program, monitor and control a product. I can prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. With a partner, I can demonstrate how to prepare and cook dishes safely and hygienically including, where appropriate, the use of a heat source. With support, I can demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling. I can adapt and refine recipes by adding or substituting one or more ingredients to change the appearance, taste, texture and aroma. I can measure accurately and	I can critically evaluate the quality of design, manufacture, functionality, innovation and fitness for purpose of products as I design and make. I can confidently evaluate my ideas and products against the original design criteria, making changes as needed. I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products. I can apply my understanding of computing to program, monitor and control a product. I can confidently prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques I can independently demonstrate how to prepare and cook a variety dishes safely and hygienically including, where appropriate, the use of a heat source. I can demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling. I can adapt and refine recipes to change the appearance, taste.
		cutting, kneading and baking. I can prepare ingredients using appropriate cooking utensils. I can measure and weigh ingredients to the nearest gram	I can adapt and refine recipes by adding or substituting one or more ingredients to change the appearance, taste, texture and	I can demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling.
				scale up or down from a recipe. I can independently follow a recipe.

	Year Group	1	2	3	4	5	6
	Topic	My 5 Senses	Pirates	India	Africa	Macbeth	Woeful Wars
	DT Focus	Textiles		Textiles	3D Models	3D Models	
	Knowledge  Design Make Evaluate Technical Knowledge Cooking and Nutrition	I know how to use pictures and words to make a simple plan before making. I can begin to use hand tools and kitchen equipment safely and appropriately. I can explain how to use scissors correctly. I can talk about pre-existing products, saying what is good or bad about them. I can describe simple features of the materials I am using.		I can describe how my design meets a set criteria. I know why it's important to test ideas before making. I can place the main stages of making in a systematic order. I understand the importance of creating a product that is aesthetically pleasing. I can consider my design criteria as I make progress and am willing to alter my plans if this helps to improve the product. I understand that materials have both functional properties and aesthetic qualities.	I can describe and prove how my design meets a set criteria. I can explain why it's important to test ideas out using prototypes. I can learn to use a range of tools and equipment safely, appropriately and accurately. I can explain how to create a product that is aesthetically pleasing. I can consider my design criteria as I make progress and am willing to alter my plans, sometimes considering the views of others if this helps to improve the product. I understand how mechanical and electrical systems have an input and output process. I can explain how mechanical systems such as levers and linkages create movement.	I can come up with a range of ideas for an item after collecting information from different sources. I can explain how each part of my product works. I can learn to use a wide range of tools and equipment safely, appropriately and accurately I understand the importance of reviewing each construction phase to ensure that each part works and is secure to achieve a fully effective end product. I understand and can begin to demonstrate that mechanical and electrical systems have an input, process and output. I can begin to explain how mechanical systems, such as cams, create movement and use mechanical systems in their products.	
Autumn 1	Skills  Design Make Evaluate Technical Knowledge Cooking and Nutrition	I can design appealing products for a particular user based on simple design criteria. I can work in some relevant contexts, for example imaginary, story-based, home, school and the wider environment. I can select from a range of materials, textiles and components. I can use simple materials and components, including textiles and food ingredients. I can cut, shape and join fabric to make a simple product. With help, I can use a basic running stitch. While working, I can start to identify strengths and possible changes I might make to refine my existing design.	No DT this half term	I can begin to develop and follow simple design criteria. With help, I can create a simple step-by-step plan, choosing the right equipment and materials. I can begin to work in a broader range of relevant contexts, for example entertainment, the home, school, leisure, food industry and the wider environment. I can demonstrate how to measure, cut, shape and join fabric with some accuracy to make a simple product. I can join textiles with an appropriate sewing technique. I can use running stitch (Y18.2) and backstitch (Y3). I can begin to select and use different finishing techniques to improve the appearance of a product such as tiedye and fabric paints. I can explore and evaluate existing products, explaining the purpose of the product and whether it is designed well to meet the intended purpose. I can evaluate my product against the original design criteria.	I can develop and follow simple design criteria. I can use annotated sketches and cross-sectional drawings to develop and communicate my ideas. When designing, I can explore different initial ideas before coming up with a final design. I can select from a range of materials and components according to their aesthetic qualities. I can use a wider range of materials and components, including construction materials and kits, textiles, mechanical and electrical components and food ingredients. With growing independence, I can measure and mark out to the nearest cm and mm. I can cut, shape and score materials with a growing degree of accuracy. I can assemble, join and combine material and components with a growing degree of accuracy. I can evaluate my product against the original design criteria. I can evaluate we product against the original design criteria. I can explain the components in order to create more complex structures in order to create more sturdy products. I can make and represent simple electrical circuits, such as a series and parallel, and components to create functional products. I can make and represent simple electrical circuits, such as a series and parallel, and components to create functional products. I can use mechanical systems in my products.	I can create my own set criteria to inform my design of a product. I can generate a range of design ideas and dearly communicate final designs. I can produce a detailed plan, with step-by-step instructions, crosssectional diagrams and prototypes. I can select from a range of materials and components according to their functional properties and aesthetic qualities. I can independently take exact measurements and mark out, mostly accurately, to within 1mm. I can use a full range of materials and components, including construction materials and kits, textiles, mechanical components, including construction materials and some products of the components of the components. I can cut a range of materials with accuracy. I can assemble, join and combine materials and components with accuracy. I can essemble, join and combine materials and components with accuracy. I can evaluate my ideas and products against the original design criteria, making changes as needed. I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products. I can begin to apply my understanding of computing to program, monitor and control a product.	No DT this half term
	Key Vocabulary	planning, investigating design, evaluate, make, user, purpose, ideas, product		fabric, names of fabrics, fastening, compartment, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch, seam, seam allowance	evaluating, design brief design criteria, innovative, prototype, user, purpose, function, prototype, design criteria, innovative, appealing, design brief, planning, annotated sketch, sensory evaluations	design decisions, functionality, authentic, user, purpose, design specification, design brief, innovative, research, evaluate, design criteria, annotate, evaluate, mock-up, prototype, frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent	
	Assessment: Final Product			Indian puppet	African huts	Shakespeare theatre	

	Year Group	1	2	3	4	5	6
	Topic	Explorers	Christmas (Victorians)	Stone Age	The Rainforest	The Anglo-Saxons	Magnificent Mountains
	DT Focus	Food Technology	Textiles		Food Technology	Textiles	Modroc Mountains I can generate a wide range of design ideas and clearly
	Knowledge  Design Make Evaluate Technical Knowledge Cooking and Nutrition	I know how to use pictures and words to make a simple plan before making. I can begin to use hand tools and kitchen equipment safely and appropriately. I can learn to follow simple hygiene procedures. I can talk about pre-existing products, saying what is good or bad about them. I can begin explain where some foods in the world originate from. I understand that all food comes from plants or animals. I can name and sort foods into groups. I understand that everyone should eat at least five portions of fruit and vegetables every day.	I know how to create designs using pictures, diagrams, models, mockups, words and ICT. I can explain how to use a needle safely. I can talk about my design ideas and what I am making. I can describe different features of the materials I am using.	No DT this half term	I can list the design features of my products that will appeal to intended customers.  I can place the main stages of making in a systematic order and explain my choices. I can learn to follow hygiene procedures. I am beginning to understand and apply the principles of a healthy and varied diet. I am beginning to understand seasonality, and know where and how some ingredients are grown, reared, caught and processed. I can begin to explain when, where and how food is grown in the UK, Europe and the wider world. I understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically. I can explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide, and I am able to apply these principles when planning and cooking dishes.	I can explain how a product will appeal to a specific audience. I can learn to use a wide range of tools and equipment safely, appropriately and accurately. I understand the importance of reviewing each construction phase to ensure that each part works and is secure to achieve a fully effective end product.	I can use annotated sketches, cross- sectional drawings and exploded diagrams (possibly including computer-aided design) to develop and communicate my ideas, including the use of prototypes. I can confidently select from a wide range of tools and equipment, explaining my choices clearly. I can select from a range of materials and components according to their functional properties and aesthetic qualities. I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products.
Autumn 2	Skills  Design Make Evaluate Technical Knowledge Cooking and Nutrition	I can design appealing products for a particular user based on simple design criteria. I can think of my own ideas to make something. With support, I can follow a simple plan or recipe. I can begin to select hand tools and equipment, such as scissors, graters and safe knives. I can use simple materials and components, including textiles and food ingredients. With help, I can measure and mark out materials and ingredients. With help, I can cut, peel and grate ingredients, including measuring and weighing ingredients using measuring and weighing ingredients products are made from. I can begin to use the basic principles of a healthy and varied diet to prepare dishes. With support, I can use simple utensils and equipment to cut, squeeze and grate safely.	I can design a product for myself and others, following design criteria. I can work in a range of relevant contexts, for example imaginary, story-based, home, school and the wider environment. I can select from a range of materials, textiles and components according to their characteristics. I can demonstrate how to cut, shape and join fabric to make a simple product. I can unsupply to the desired effect. I can use a basic running sittch. I can explore and evaluate existing products mainly through discussions, comparisons and simple written evaluations. While working, I can start to identify strengths and possible changes I might make to refine my existing design.		when painting and counting usines.  I can develop and follow simple design criteria.  With support, I can produce a detailed plan with labelled diagrams, a written explanation and step-bystep guide, explaining my choice of materials and components.  With some confidence, I can carefully select from a range of tools and equipment, explaining my choices. I can explore what materials/ingredients products are made from and suggest reasons for this.  I can evaluate my product against the original design criteria.  With support, I can prepare and cook more than one savoury dish using a range of cooking techniques.  With support, I can use a heat source to cook ingredients, showing awareness of the need to control the temperature of the hob and/or oven. I can independently use a range of techniques, including mashing, whisking, crushing, grating, cutting, kneading and baking.  I can prepare ingredients using appropriate cooking utensils. I can measure and weigh ingredients to the nearest gram and milliliter. I can begin to independently follow a	l can design innovative and appealing products that have a clear purpose and are aimed at a specific user. I can suggest alternative plans, considering the positive aspects and drawbacks of each I can work in a broad range of relevant contexts, for example conservation, the home, school, leisure, culture, enterprise, industry and the wider environment. I can demonstrate how to measure, tape, pin, cut, shape and join fabric with precision to make a more complex product. I can join textiles using a greater variety of stitches, such as running stitch (Y18.2), backstitch (Y3) overstitch (Y4) and whip stitch (Y5). I can refine the finish using techniques to improve the appearance of my product, such as a more precise scissor cut after roughly cutting out a shape. I can critically evaluate the quality of design, manufacture and fitness for propose of products at I design and	
	Key Vocabulary	fruit and vegetable names, names of equipment and utensils sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients	joining and finishing techniques, tools, fabrics and components, template, pattern pieces, mark out, join, decorate, finish		recipe.  name of products, names of equipment, utensils, techniques and ingredients texture, taste, sweet, sour, hot, spicy, appearance, smell, preference, greasy, moist, cook, fresh, savoury, hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet		
	Assessment: Final Product	Fruit kebabs	Christmas Stockings		Food	Purse	

	Year Group	1	2	3	4	5	6
	Topic	Fire! Fire!	China	Extreme Earth: Volcanoes & Earthquakes	Fantastic Beasts	Raging Rivers	Vikings
	DT Focus		Food technology	3D Models			3D Models
	Knowledge  Design Make Evaluate Technical Knowledge Cooking and Nutrition	No DT this half term	I know what tools and materials to use and can explain why I have chosen them.  I can learn to use hand tools and kitchen equipment safely and appropriately. I can learn to follow simple hygiene procedures. I can talk about my design ideas and what I am making. I can explain where in the world different foods originate from. I can explain that all food comes from plants or animals and give examples of each. I understand that food has to be farmed, grown elsewhere (e.g. home) or caught. I can name and sort foods into the five groups in the Eatwell Guide. I understand that everyone should eat at least five portions of fruit and vegetables every day and start to explain why. I can use what I know about the Eatwell Guide to design and prepare dishes.	I can explain how particular parts of my products work. I know why it's important to test ideas before making. I can learn to use a range of tools and equipment safely, appropriately and mostly accurately. I can consider my design criteria as I make progress and am willing to after my plans if this helps to improve the product. I understand that materials have both functional properties and aesthetic qualities. I can begin to explain how mechanical systems such as levers and linkages create movement.			I can explain and justify how a product will appeal to a specific audience. I can use my knowledge to independently plan by suggesting what to do next. I can learn to use a wider ange of tools and equipment safely, appropriately and accurately. I can explain the importance of reviewing each construction phase to ensure that each part works and is secure to achieve a fully effective end product. I understand and can demonstrate that mechanical and electrical systems have an input, process and output. I can explain how mechanical systems, such as cams, create movement and use mechanical systems in their products.
Spring 1	Skills  Design Make Evaluate Technical Knowledge Cooking and Nutrition  Key Vocabulary		I can design a product for myself and others, following design criteria. I can follow a simple plan or recipe. I can begin to select from a range of hand tools and equipment, such as scissors, graters, zesters, safe knives and juicers. I can use a range of materials and components, including textiles and food ingredients. With some guidance, I can measure and mark out materials and ingredients. I can assemble, join and combine materials, components or ingredients. I can cut, peel and grate ingredients. I can cut, peel and grate ingredients, including measuring and weighing ingredients using measuring cups. I can explore what materials/ingredients products are made from and discuss my ideas. I can use the basic principles of a healthy and varied diet to prepare dishes. I can use simple utensils and equipment to peel, cut, slice, squeeze, grate and chop safely.	I can begin to develop and follow simple design criteria.  When designing, I can generate more that one initial ideas before coming up with a final design. When planning, I can start to explain my choice of materials and components. I can select from a range of materials and components according to their aesthetic qualities. With support, I can measure and mark out to the nearest cm and mm. I can cut, shape and score materials with some degree of accuracy. I can assemble, join and combine material and components with some degree of accuracy. I can explore and evaluate existing products, explaining the purpose of the product and whether it is designed well to meet the intended purpose. I can begin to evaluate key events, including technological developments, and designs of individuals that have helped shape the world. I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more sturdy products. I can begin to use mechanical systems in my products.	No DT this half term	No DT this half term	I can generate a wide range of design ideas and clearly communicate final designs. I can use annotated sketches, cross-sectional drawings and exploded diagrams (possibly including computer-aided design) to develop and communicate my ideas, including the use of prototypes. I can work within constraints, refining and justifying plans as necessary. I can confidently select from a wide range of tools and equipment, explaining my choices clearly. I can select from a range of materials and components according to their functional properties and aesthetic qualities. I can independently take exact measurements and mark out, to within Imm. I can use a full range of materials and components, including construction materials and kits, textiles, mechanical components and food ingredients. I can cut a range of materials with precision and accuracy. I can assemble, join and combine materials and components with accuracy. I can assemble, join and combine materials and components with accuracy. I can critically evaluate the quality of design, manufacture, functionality, innovation and fitness for purpose of products as I design and make. I can apply my understanding of how to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products. I can apply my understanding of foor to strengthen, stiffen and reinforce more complex structures in order to create more useful characteristics of products. I can apply my understanding of foor to strengthen, reinforce, triangulation, stability, shape, ion, temporary.
	Key Vocabulary		equipment and utensils sensory vocabulary e.g. soft, Juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients				triangulation, stability, shape, join, temporary, permanent, function, innovative, design specification, design brief, user, purpose design brief, design specification, prototype, annotated sketch, purpose, user, innovation, research, functional, mock-up, prototype
	Assessment: Final Product	Thank you cards, picnic food	Chinese Food	Exploding Volcano			A Viking boat

	Year Group	1	2	3	4	5	6
	Topic	How does your garden grow?	Arctic and Antarctic	Robots	Tudors	Ancient Greeks	Frozen Kingdoms
	Make Evaluate Technical Knowledge Cooking and Nutrition	No DT this half term	No DT this half term	No DT this half term	No DT this half term	I can explain how a product will appeal to a specific audience. I can use my knowledge to independently plan by suggesting what to do next. I can learn to follow hygiene procedures and explain why they are important. I understand and can apply the principles of a healthy and varied diet. I understands seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed. I understand how seasonality may affect food availability and can begin to plan recipes using my knowledge. I know, explain and give some examples of food that is grown (such as poutry and cattle) and caught (such as fish) in the UK, Europe and the wider world. I understand that food is processed into ingredients that can be eaten or used in cooking.	I know how to use market research to inform my plans and ideas for an item (i.e. market research using surveys, interviews, questionnaires or web based resources). I can explain and justify how a product will appeal to a specific audience. I can use my knowledge to independently plan by suggesting what to do next.
Spring 2	Skills  Design Make Evaluate Technical Knowledge Cooking and Nutrition  Key Vocabulary					I can design innovative and appealing products that have a clear purpose and are aimed at a specific user I can begin to consider the availability and costings of resources when planning out designs.  With growing confidence, I can select from a wide range of tools and equipment, explaining my choices. I can complete competitor analysis of other products on the market. I can evaluate my ideas and products against the original design criteria, making changes as needed. I can prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.  With a partner, I can demonstrate how to prepare and cook dishes safely and hygienically including, where appropriate, the use of a heat source.  With support, I can demonstrate how to use a range of cooking techniques, such as griddling, grilling, frying and boiling. I can adapt and refine recipes by adding or substituting one or more ingredients to change the appearance, taste, texture and aroma. I can measure accurately and begin to calculate ratios of ingredients to scale up or down from a recipe. I can independently follow a recipe. I	I can develop detailed design criteria to inform the design of innovative, functional and appealing products that are fit for purpose and aimed at a target market. I can generate a wide range of design ideas and clearly communicate final designs. I can work in a broad range of relevant contexts, for example conservation, the home, school, leisure, culture, enterprise, industry and the wider environment. I can demonstrate how to measure, make a seam allowance, tape, pin, cut, shape and join fabric with precision to make a more complex product. I can join textiles using a greater variety of stitches, such as running stitch (Y48.2), backstitch (Y3), overstitch (Y4), whip stitch (Y5) and blanket stitch (Y6). I can refine the finish using techniques to improve the appearance of my product, such as a more precise scisor cut after roughly cutting out a shape or sanding. I can confidently evaluate my ideas and products against the original design criteria, making changes as needed.
	Assessment: Final Product					Greek salad	Indigenous Clothing

	Year Group	1	2	3	4	5	6
	Topic	Toy Story	Castles	Chocolate	Romans	Space	British Empire
	DT Focus	3D Models - Using mechanisms	3D models	Food Technology	Textiles		
	Knowledge  Design Make Evaluate Technical Knowledge Cooking and Nutrition	I know how to design a product for myself, following design criteria. I can begin to use hand tools and kitchen equipment safely and appropriately. I can explain how to use scissors correctly. I know if my product does what it is meant to (fits the design brief) and how it could be improved. I am beginning to understand how to make a 3D model stronger. I can describe simple features of the materials I am using. I can list different types of mechanisms, e.g. levers, sliders and wheels.	I know how to create designs using pictures, diagrams, models, mockups, words and ICT. I can learn to use hand tools and kitchen equipment safely and appropriately. I can discuss positives and things to improve for existing products. I can list ways to make a 3D model stronger. I can describe different features of the materials I am using. I can list different types of mechanisms, e.g. levers, sliders and wheels, and explain how they work.	I can use my knowledge of a broad range of existing products to help me generate ideas. I can place the main stages of making in a systematic order. I can learn to follow hygiene procedures. I am beginning to understand the principles of a healthy and varied diet. I can begin to explain when, where and how some food is grown (such as herbs, tomatoes and strawberries) in the UK, Europe and the wider world. I understand how to prepare and cook a savoury dish safely and hygienically. I can explain that a healthy diet is made up of a variety and balance of different food and drink, as represented in the Eatwell Guide. I understand that to be active and healthy, nutritious food and drink are needed to provide energy for the body.	I can describe and prove how my design meets a set criteria. I can place the main stages of making in a systematic order and explain my choices. I can explain how to create a product that is aesthetically pleasing. I can consider my design criteria as I make progress and am willing to alter my plans, sometimes considering the views of others if this helps to improve the product.		
Summer 1	Skills  Design Make Evaluate Technical Knowledge Cooking and Nutrition	I can describe how something works. I can explain to someone else how I want to make my product. I can cut, shape and score materials. I can assemble, join and combine materials, components or ingredients. I can begin to use simple finishing techniques to improve the appearance of their product, such as adding simple decorations. While working, I can start to identify strengths and possible changes I might make to refine my existing design. I can begin to build simple structures, exploring how they can be made stronger, stiffer and more stable. I can talk about and start to understand the simple working characteristics of materials and components. I can begin to explore and create products using mechanisms, such as levers, sliders and wheels.	I can think of my own ideas using my knowledge of existing products and plan what to do next. I can explain how my product will look and work through talking and simple annotated drawings. I can select from a range of materials, textiles and components according to their characteristics. I can cut, shape and score materials with some accuracy. I can assemble, join and combine materials, components or ingredients. I can begin to use simple finishing techniques to improve the appearance of their product, such as adding simple decorations. I can evaluate my products and ideas against a simple design criteria. I can build simple structures, exploring how they can be made stronger, stiffer and more stable. I can describe and explain the simple working characteristics of materials and components. I can explore and create products using mechanisms, such as levers, sliders and wheels.	I can describe a design using accurately labelled diagrams. With help, I can create a simple step-by-step plan, choosing the right equipment and materials. With some confidence, I can carefully select from a range of tools and equipment. I can use a wider range of materials and components, including construction materials and kits, textiles, mechanical components and food ingredients. I can explore what I can use a range of cooking techniques. With support, I can use a heat source to cook ingredients. I can use a range of techniques, such as mashing, whisking, crushing, grating, cutting, kneading and baking. I can prepare ingredients using appropriate cooking utensils. With support, I can measure and weigh ingredients to the nearest gram and millilitre. I can begin to independently follow a recipe.	I can use annotated sketches and cross-sectional drawings to develop and communicate my ideas. When designing, I can explore different initial ideas before coming up with a final design. I can work in a broader range of relevant contexts, for example entertainment, the home, school, leisure, food industry and the wider environment. I can demonstrate how to measure, cut, shape and join fabric with growing accuracy to make a simple product. I can join textiles with an appropriate sewing technique. I can use running stitch (Y1&2), backstitch (Y3) and overstitch (Y4). I can begin to select and use different and appropriate finishing techniques to improve the appearance of a product such as hemming, tie-dye, fabric paints and digital graphics. I can explore and evaluate existing products, explaining the purpose of the product and whether it is designed well to meet the intended purpose. I can evaluate my product against the original design criteria.	No DT this half term	No DT this half term
	Key Vocabulary		cut, fold, join, fix structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic circle, triangle, square, rectangle, cuboid, cube, cylinder, investigating, planning, design, make, evaluate, user, purpose, ideas, design criteria, product, function	recipe.  name of products, names of equipment, utensils, techniques and ingredients texture, taste, sweet, sour, hot, spicy, appearance, smell, preference, greasy, moist, cook, fresh, savoury, hyglenic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet	fabric, names of fabrics, fastening, compartment, zip, button, structure, finishing technique, strength, weakness, stiffening, templates, stitch, seam, seam allowance		
	Assessment: Final Product	Moving vehicle	Model of a Motte and Bailey castle				

	Year Group	1	2	3	4	5	6
	Topic	What a wonderful world	Madagascar	Ancient Egypt	Urban Life & Diversity	Endangered Earth	Mayans
2	Make Evaluate Technical Knowledge Cooking and Nutrition						I know how to use market research to inform my plans and ideas for an item (i.e. market research to inform my plans and ideas for an item (i.e. market research using surveys, interviews, questionnaires or web based resources).  I can learn to follow hygiene procedures and explain why they are important.  I know how products should be stored and give reasons.  I know how products should be stored and give reasons.  I know how to work within a budget. I can explain and apply the principles of a healthy and varied diet. I can explain and spoly the principles of a healthy and varied diet. I can explain and spoly the principles of a leafthy and varied diet. I can explain and papurated, caught and processed. I understand how seasonality may affect food availability and can plan recipes according to seasonality. I know, explain and give a range of examples of food that is grown (such as pears, wheat and potatoes), reared (such as poultry and cattle) and caught (such as fish) in the UK, Europe and the wider world. I can explain that foods contain different substances, such as protein, that are needed for health and be able to apply these principles when planning and preparing dishes. I can develop detailed design criteria to inform the design of innovative,
Summer 2	Skills  Design Make Evaluate Technical Knowledge Cooking and Nutrition  Key Vocabulary	No DT this half term	No DT this half term	No DT this half term	No DT this half term	No DT this half term	functional and appealing products that are fit for purpose and aimed at a target market. Ic an to consider the availability and costings of resources when planning out designs. Ic an use a full range of materials and components, including construction materials and kits, textiles, mechanical components and food ingredients. Ic an complete detailed competitor analysis of other products on the market. Ic an confidently evaluate my ideas and products against the original design criteria, making changes as needed. Ic an confidently prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques. Ican independently demonstrate how to prepare and cook a variety dishes safely and hygienically including, where appropriate, the use of a heat source. Ic an demonstrate how to use a range of cooking technique, such as griddling, grilling, frying and boiling. Ican adapt and refine recipes to change the appearance, taste, texture and aroma. Ican later methods, cooking times and/or temperatures. Ican measure accurately and calculate ratios of ingredients to scale up or down from a recipe.  I can independently follow a recipe.
	Assessment: Final Product						Mayan inspired food