

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	0.00	xplores a variety of materials, tools ar ave learned about materials in origina ology. ELG		5	5	oughts and feelings through

Year 1						
	Autumn	Spring	Summer			
	Cooking and Nutrition	Cooking and nutrition	Cooking and Nutrition			
	Making gingerbread Understanding where food comes from		Principles of a varied and health diet –			
	Design and Make	Design and Make	Design and Make			
Year 1	Worry dolls	Products linked to the weather – chimes/kites	Pop-up puppets			
	<u>Mechanisms</u>	Textiles	Cooking and Nutrition			
	Christmas Card –whole school project	<u>Sewing – whole school project</u>	Health week – whole school project			
Key Knowledge and Skills	 generate, develop, model and communicate their technology Spring/ Summer) MAKE select from and use a range of tools and equipme select from and use a range of materials and com EVALUATE explore and evaluate a range of existing products evaluate their ideas and products against design of TECHNICAL KNOWLEDGE build structures, exploring how they can be made 	sriteria (Summer) stronger, stiffer and more stable (Spring/ Summer) , sliders, wheels and axles], in their products. (Spring / Summer)	e appropriate, information and communication ng and finishing] Spring/ Summer)			



• understand where food comes from. (Autumn Spring / Summer)

Year 2						
	Autumn	Spring	Summer			
Year 2	<u>Design and Make</u> Building structures – linked to Saltaire <u>Mechanisms</u> Christmas Card –whole school project	<u>Design and Make</u> Exploring and using mechanisms – links with traditional tales <u>Textiles</u> Sewing – whole school project	<u>Design and make</u> Model boats – science links <u>Cooking and Nutrition</u> Health week – whole school project			
Key Knowledge and Skills	 generate, develop, model and communicate the technology(Autumn/Spring) MAKE select from and use a range of tools and equip select from and use a wide range of materials a (Autumn/Spring/Summer) EVALUATE explore and evaluate a range of existing prodution evaluate their ideas and products against design TECHNICAL KNOWLEDGE build structures, exploring how they can be material 	an criteria (Autumn/Spring/Summer) ade stronger, stiffer and more stable (Autumn/Summer) ers, sliders, wheels and axles], in their products. (Spring)	appropriate, information and communication ng and finishing] (Autumn) (Spring) (Summer)			



		Year 3	
	Autumn	Spring	Summer
Year 3	<u>Design and Make</u> Clay modelling – dinosaur eyes Puppets – English link <u>Mechanisms</u> Christmas Card –whole school project	<u>Design and Make</u> Textiles – Sewing <u>Cooking and Nutrition</u> Sandwiches <u>Textiles</u> Sewing – whole school project	<u>Cooking and Nutrition</u> Health week – whole school project
Key Knowledge and Skills	 groups (Spring) generate, develop, model and communicate their is and computer-aided design (Autumn) Make select from and use a wider range of tools and equi (Summer) select from and use a wider range of materials and aesthetic qualities (Spring) Evaluate investigate and analyse a range of existing products evaluate their ideas and products against their owr understand how key events and individuals in desig Technical knowledge apply their understanding of how to strengthen, sti understand and use electrical systems in their prod apply their understanding of computing to program 	s (Spring) (Summer) In design criteria and consider the views of others to impro- gn and technology have helped shape the world ffen and reinforce more complex structures (Autumn) (Sp oducts [for example, gears, pulleys, cams, levers and linka lucts [for example, series circuits incorporating switches, h n, monitor and control their products. (carousel)	onal and exploded diagrams, prototypes, pattern pieces haping, joining and finishing], accurately (Autumn) nd ingredients, according to their functional properties and ove their work (Autumn) Spring) pring) ages] bulbs, buzzers and motors]
Curriculum Carousel Project based learning	MAKING BREAD COOKING AND NUTRITION (taught as a project as Carousel throughout the academic year) Key knowledge and skills • To learn how bread products are an important part of a balanced d • Select from a range of ingredients according to their functional pro	part of LKS2 Curriculum iet. Carousel throughout the apply their understand products	E (taught as a project as part of LKS2 Curriculum ne academic year) nding of computing to program, monitor and control their



 Generate, develop and communicate ideas through discussion Evaluate own ideas and products against the views of others and the design criteria Identify differences, similarities or changes related to simple scientific ideas and processes Know that some materials change state when they are heated or cooled ask relevant questions setting up simple practical enquiries, make systematic and careful observations use simple scientific language, drawings, labelled diagrams, identify differences, similarities or changes related to simple scientific ideas and processes 	 design, write and debug programs that accomplish specific goals solve problems by decomposing them into smaller parts use repetition in programs use logical reasoning to explain how some simple algorithms work and detect and correct errors
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Year 4					
	Autumn	Spring		Summer	
Year 4	Design and Make Circuits, Textiles and decorations <u>Mechanisms</u> Christmas Card –whole school project	<u>Textiles</u> Sewing – whole school pr	oject	<u>Design and Make</u> Puppets – English link <u>Cooking and Nutrition</u> Health week – whole school project	
	 Design use research and develop design criteria to inform the degroups (autumn) (Summer) generate, develop, model and communicate their ideas tand computer-aided design (Summer) Make select from and use a wider range of tools and equipment (Autumn)(Summer) select from and use a wider range of materials and compaesthetic qualities (Autumn) (Summer) Evaluate investigate and analyse a range of existing products (Autue evaluate their ideas and products against their own desige understand how key events and individuals in design and Technical knowledge apply their understanding of how to strengthen, stiffen a understand and use electrical systems in their products [apply their understanding of computing to program, more 	hrough discussion, annotated sketches t to perform practical tasks [for examp onents, including construction materia umn)(Summer) (n criteria and consider the views of oth technology have helped shape the wo nd reinforce more complex structures s [for example, gears, pulleys, cams, lev for example, series circuits incorporation	s, cross-sectional ar ole, cutting, shaping als, textiles and ingr hers to improve the orld (Autumn) (Summer) vers and linkages] (ng switches, bulbs,	nd exploded diagrams, prototypes, pattern pieces g, joining and finishing], accurately redients, according to their functional properties and eir work (Autumn) (Summer)	
Curriculum Carousel – project based learning	MAKING BREAD COOKING AND NUTRITION (taught as a project as part of Carousel throughout the academic year) Key knowledge and skills	COMPUTI		ught as a project as part of LKS2 Curriculum ademic year)	



		School Design Technology			
	 To learn how bread products are an important part of a balanced diet. understand and apply the principles of a healthy and varied diet prepare and cook bread products using a range of cooking techniques know where and how a variety of ingredients are grown Select from a range of ingredients according to their functional properties and aesthetic qualities Generate, develop and communicate ideas through discussion Evaluate own ideas and products against the views of others and the design criteria Identify differences, similarities or changes related to simple scientific ideas and processes Know that some materials change state when they are heated or cooled ask relevant questions setting up simple practical enquiries, make systematic and careful observations use simple scientific language, drawings, labelled diagrams, identify differences, similarities or changes related to simple scientific ideas and processes 		 products design, write a solve problem use repetition use logical real 	apply their understanding of computing to program, monitor and control their	
		Year 5			
	Autumn	Spring		Summer	
Year 5	<u>Mechanisms</u> Christmas Card –whole school project	<u>Cooking and N</u> Changing state – linl <u>Textiles</u> Sewing – whole sch	ks to Science	<u>Design and Make</u> Levers and linkages <u>Cooking and Nutrition</u> Health week – whole school project	
Key Knowledge and Skills	 groups (Summer) (carousel) generate, develop, model and communicate thei and computer-aided design (Summer) (carousel) Make select from and use a wider range of tools and ed (Carousel) 	r ideas through discussion, ann quipment to perform practical t nd components, including const cts (Summer) (Carousel) (Spring wn design criteria and consider sign and technology have helpe stiffen and reinforce more com products [for example, gears, p oducts [for example, series circ	otated sketches, cross asks [for example, cut cruction materials, tex g) the views of others to ed shape the world (Su plex structures (Sumn ulleys, cams, levers ar uits incorporating swit	ummer) ner/ Carousel) nd linkages] (Summer/ Carousel)	



		School Design Technology Overview 2020 - 2021	Blaken					
	COOKING AND NUTRITION (taught as a project	t as part of UKS2 Curriculum Carousel throughout the	Dating and Cal					
	Understand seasonally where things are grown							
	Understand the principles of a varied diet							
	 prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques 							
Curriculum								
Carousel –		MOVING TOYS (taught as a project as part of UKS2 Curriculum Carousel throughout the academic year)						
project based	 MOVING TOYS (taught as a project as part of UKS2 Curriculum Carousel throughout the academic year) recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. 							
learning								
	. –	the design of functional, appealing products that are fit for p leas through discussion, annotated sketches, cross-sectional	-					
	 ask relevant questions and using different types of 		rand exploded diagrams, prototypes, and pattern pieces					
	 set up simple practical enquiries 							
		tions , suggest improvements and raise further questions						
		Year 6						
	Autumn	Spring	Summer					
	Design and Make	Textiles	Design and Make					
	Textiles	Sewing – whole school project	Shelters					
Year 6	<u>Mechanisms</u>	5	Cooking and Nutrition					
	Christmas Card –whole school project		Health week – whole school project					
	Design							
		n the design of innovative, functional, appealing products th	hat are fit for purpose, aimed at particular individuals or					
	groups							
	• generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces							
	and computer-aided design Make							
	 select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately 							
Kov	 select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and 							
Key	aesthetic qualities							
Knowledge	Evaluate							
and Skills	investigate and analyse a range of existing products							
	• evaluate their ideas and products against their own design criteria and consider the views of others to improve their work							
	understand how key events and individuals in design and technology have helped shape the world							
	Technical knowledge							
	 apply their understanding of how to strengthen, so understand and use mechanical systems in their states. 		and					
	 understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 							
	 understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] apply their understanding of computing to program, monitor and control their products. 							



	COOKING AND NUTRITION (taught as a project as part of UKS2 Curriculum Carousel throughout the academic year)	Primary Sch
	Understand seasonally where things are grown	
	Understand the principles of a varied diet	
	 prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques 	
	 locate the world's countries and regions using maps 	
	• understand aspects of human geography eg. Types of settlement and land use, economic activity and the distribution of natural resources	
Curriculum	MOVING TOYS (taught as a project as part of UKS2 Curriculum Carousel throughout the academic year)	
Carousel –	• recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	
project	• use research and develop design criteria to inform the design of functional, appealing products that are fit for purpose	
based	• generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, and patter	rn pieces
learning	 ask relevant questions and using different types of scientific enquiries to answer them 	
	set up simple practical enquiries	
	 use results to draw simple conclusions, make predictions, suggest improvements and raise further questions 	
	TEXTILES taught as a project as part of UKS2 Curriculum Carousel throughout the academic year)	
	• develop design criteria to inform the design of functional, appealing products that are fit for purpose, aimed at particular individuals or groups	
	• generate, develop, model and communicate their ideas through discussion, annotated sketches and pattern pieces	
	• evaluate products against their own design criteria and consider the views of others to improve their work	

<u>KS1</u>

DESIGN

- design purposeful, functional, appealing products for themselves and other users based on design criteria
- generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology

MAKE

- select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics

EVALUATE

- explore and evaluate a range of existing products
- evaluate their ideas and products against design criteria

TECHNICAL KNOWLEDGE

- build structures, exploring how they can be made stronger, stiffer and more stable
- explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.

COOKING AND NUTRITION

• use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from.

<u>KS2</u> Design



- use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design

<u>Make</u>

- select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately
- select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities

<u>Evaluate</u>

- investigate and analyse a range of existing products
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work
- understand how key events and individuals in design and technology have helped shape the world

Technical knowledge

- apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
- understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
- apply their understanding of computing to program, monitor and control their products.

Cooking and Nutrition

- understand and apply the principles of a healthy and varied diet
- prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques
- understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.