

Reception	Project 1	Project 2	Project 3	Project 4	Project 5	Project 6
	Marvellous Me	Sensational Celebrations	Frozen Kingdom	Spring has sprung!	Minibeasts & Metamorphosis	A Pirate's Life for Me!
	Elmer colours, textures, materials. Foraged art – stick pictures Autumn art and crafts.	Christmas craft, cards and decorations.	Valentine's cards Arctic and Antarctic artwork	Mother's Day cards Easter cards Easter craft Nature/plant crafts	Junk model animals Mini-beast craft Box modelling Different techniques for joining materials. Encourage children to notice features in the natural world	Making pirate props and crafts Story characters. Exploring media and materials Creating collaboratively, sharing ideas, resources and skills
Skills	Design Begin to use the language of designing and making, e.g. join, build and shape. Learning about planning and adapting initial ideas to make them better.	Make To learn to construct with a purpose in mind. Selects tools and techniques needed to shape, assemble and join materials.	Evaluate Begin to talk about changes made during the making process, e.g. making a decision to use a different joining method.	Technical To learn how to use a range of tools, e.g. scissors, hole punch, stapler, woodworking tools, rolling pins, pastry cutters. Learn how everyday objects work by dismantling things.	Nutrition To begin to understand some of the tools, techniques and processes involved in food preparation. Children have basic hygiene awareness.	



		Project 1	Project 2	Project 3	Project 4	Project 5
Year 1/2	Cycle 1	Healthy Humans Nutrition – Fruit Smoothie • Designing appealing products for a user; investigating fruit and vegetables and generating ideas; communicating through talk and drawings. • Selecting a range of fruits and vegetables; using simple utensils and equipment. • Tasting and evaluating user's preference; evaluating ideas and finished products against original criteria. • Understand where ingredients come from and the basis of a healthy and varied diet.	Let's Celebrate	Wonderful Weather Mechanisms Moving Pictures • Generating, modelling and communicating ideas. • Planning making, selecting tools and using finishing techniques. • Exploring books and products; evaluating own product against original criteria. • Exploring sliders and levers; understanding types of movement; technical vocabulary.	Regal Royals Textiles Puppets • Design a functional, appealing product for a chosen user and purpose. • Generate, develop, and communicate ideas. • Use a range of textiles, tools and equipment to perform practical tasks. • Explore and evaluate existing textile products and their own ideas and products. • Understand how 3-D textile products are made, using joining, templates and finishing to create two identical shapes.	Beastly Bugs
		All About Me	Fire! Fire!	Fantastic Fabrics	How Does Your Garden Grow?	Plastic Ocean
	Cycle 2		Nutrition – Wrap • Designing appealing products for a user; investigating fruit and vegetables and generating		 Mechanisms – Wheels and axles – Wheels – working with wheels and axles Generate ideas and simple design 	Structures (Freestanding Structures): Baby Bear's Chair • Generating design ideas; developing modelling and explaining using

Design and Technology Subject Overview



		Roberttown
ideas; communicating	criteria.	talk, mock-ups and drawings.
through talk and drawings.	 Develop and communicate 	 Planning making, selecting
 Selecting a range of fruits 	ideas through	tools and new and
and vegetables; using	drawings and mock-ups.	recycled materials; using
simple utensils and	 Select a range of tools and 	finishing techniques.
equipment.	equipment and	 Exploring existing
 Tasting and evaluating 	materials to perform practical	freestanding structures;
user's preference;	tasks.	evaluating their own products
evaluating ideas and finished	 Explore wheels and axles 	against original
products against	and evaluate their	criteria.
original criteria.	ideas and products against	 Know about strengthening
Understand where	original criteria.	structures;
ingredients come from and	-	knowledge of vocabulary.
the basis of a healthy and		-
varied diet.		



Lower		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
KS2			Textiles – Aprons		Mechanical Systems –		Nutrition –	
Lower KS2	Year 3	Autumn 1		Spring 1		Summer 1	Nutrition – Super Salads • Generate ideas and develop design criteria for an appealing product for a user and purpose. • Plan the main stages of a recipe, listing ingredients, utensils and equipment. • Select from a range of ingredients to make appropriate food products. • Carry out and record	
							and products.Know a range of	



Upper KS2	Year 5	Nutrition – Christmas Ginger Biscuits • Generate and explore innovative	Mechanisms – Gears and Pulleys • Generate ideas through research and	 Textiles – Designer Bags Generate and communicate
	Year 4	Nutrition – Dips and Dippers• Generate ideas and develop design criteria for an appealing product for a user and purpose.• Plan the main stages of a recipe, listing ingredients, utensils and equipment.• Select from a range of ingredients to make appropriate food products.• Carry out and record evaluations of a variety of ingredients and products.• Know a range of appropriate ingredients, and whether they are grown, reared or caught.	Electrical Systems – Developing Handmade Switches • Use annotated sketches, cross sectional and exploded diagrams to develop and communicate ideas. • Select and use tools with some accuracy to cut, shape, join and finish. • Use construction materials and electrical components according to their functional properties and aesthetic qualities. • Understand and use electrical systems in their products, such as series circuits incorporating switches, bulbs and buzzers.	appropriate ingredients, and whether they are grown, reared or caught.Structure - Banish Broken Biscuits! Box them Brilliantly!• Generate and develop realistic ideas and design criteria collaboratively and through analysis of existing products.• Order the stages of making; selecting tools and using with some accuracy.• Investigate and evaluate shell structures, and construct strong, stiff shell structures.• Test and evaluate own products against design criteria and intended user and purpose.

Design and Technology Subject Overview



discussion to develop a design brief.design specification.• Select use a range of • Write a step-by-step recipe, including a list oftools and equipment to make	 innovative ideas through research. Produce detailed lists of equipment and fabrics and formulate step-by-step plans for making.
discussion to develop a design brief.design specification.• Write a step-by-step recipe, including a list of• Select use a range of tools and equipment to make	• Produce detailed lists of equipment and fabrics and formulate step-by-step plans for
design brief.• Select use a range of• Write a step-by-steptools andrecipe, including a list ofequipment to make	of equipment and fabrics and formulate step-by-step plans for
Write a step-by-step tools and recipe, including a list of equipment to make	and fabrics and formulate step-by-step plans for
recipe, including a list of equipment to make	formulate step-by-step plans for
	plans for
	•
ingredients, equipment products that that are	making.
and utensils. accurately assembled	5
Using appropriate and well finished within	 Investigate and
utensils and equipment the constraints of time,	analyse textile products
accurately, make, resources and cost.	linked
decorate and present a	to their final product
food product to the original	and compare the final
product for the design	product to the original
intended user and specification and test	design specification.
purpose. the quality of the	 Know that a 3-D
• Evaluate a range of design,	textile product can be
relevant products and manufacture and	made
ingredients and the final functionality with the	from a combination of
product with reference user.	pattern pieces, fabric
to the design brief and Investigate famous 	shapes and different
specification. manufacturing and	fabrics and that fabrics
Understand engineering companies	can be strengthened,
seasonality and the relevant to the project.	stiffened and
source of	reinforced.
different food products.	
Frame structures – Bird	Nutrition – Making
	Bread
Controller)	
Research user needs	 Generate and explore
• Develop a design •	innovative
products and develop specification for a	ideas through research
> and model functional product that	and
innovative ideas into a responds	discussion to develop a
design automatically to	design brief.
specification. changes in the	Ŭ



 			Roberttown
• Formulate a plan with	enviro	onment.	 Write a step-by-step
a step-by-step list of	• Forr	mulate a step-by-	recipe, including a list of
tasks and resources.	step p	olan to making, i	ingredients, equipment
 Use tools to 	listing	5	and utensils.
accurately measure,	tools,	, equipment,	 Using appropriate
mark out, cut,	mater	rials and	utensils and equipment
shape and join materials	comp	onents.	accurately, make,
to make frameworks.	• Use	a computer	decorate and present a
 Use finishing 	contro	ol program to f	food
techniques suitable for	enable	e an	product for the
the	electr	rical product to i	intended user and
product and critically	work	automatically in	purpose.
evaluate their products	respo	onse to changes in	 Evaluate a range of
against a range of	the er	nvironment.	relevant products and
criteria.	• Test	t and evaluate the i	ingredients and the final
 Research key events 	,		product with reference
and individuals relevant	its eff	fectiveness for the 1	to the design brief and
to	intenc	ded user and	specification.
frame structures.	purpo	ose.	 Understand
			seasonality and the
	techn	nical vocabulary	source of
	releva	ant to	different food products.
	the pr	roject.	