Design & Technology

	Autumn	Spring	Summer
EYFS2	Structures: Junk modelling In this unit, pupils explore and learn about various types of permanent and temporary join. They are encouraged to tinker using a combination of materials and joining techniques in the junk modelling area. Hibernation box Seasonal project	Cooking and nutrition: Soup In this unit, children explore the differences between fruits and vegetables using their senses (taste, texture, smell etc.). They listen to the story 'The best pumpkin soup' and discuss the key ingredients the characters used before developing a class-based vegetable soup recipe.	Textiles: Bookmarks (WBD) Pupils develop and practise threading and weaving techniques using various materials and objects. They look at the history of the bookmark from Victorian times versus modern-day styles. The pupils apply their knowledge and skills to design and sew their own bookmarks. Making a rainbow salad Seasonal project
	Mechanisms: Making a	Seasonal project	Cooking and nutrition:
Year 1	moving story book Explore slider mechanisms and the movement they output, to design, make and evaluate a moving storybook from a range of templates.	and axles Learn about the key parts of a wheeled vehicle, to develop an understanding of how wheels, axles and axle holders work. Design and make a moving vehicle.	Fruit and vegetables Learn to distinguish between fruit and vegetables and where they grow. Design a fruit and vegetable smoothie and accompanying packaging.
	Mechanisms: Moving	Cooking & nutrition:	Mechanisms: Ferris
Year 2	monsters Explore levers, linkages and pivots through existing products and experimentation, use this research to construct and assemble a moving monster.	Healthy wrap Learn about the importance of a balanced diet and use that knowledge to create a tasty wrap.	wheel Design and create a functional Ferris wheel, learn how different components fit together so that the wheel rotates and the structure stands freely.
Year 3	Textiles: Cushions Learn and apply two new sewing techniques – cross-stitch and appliqué. Utilise these new skills to design and make a cushion or Egyptian collar.	Structures: Constructing an Iron Man Dsigning and making a recycled-material Iron Man (structure).	Cooking & nutrition: 'Eating Seasonally' Learn about various fruits and vegetables, and when, where and why they are grown in different seasons. Discover the relationship between colour and health benefits.

	Design and make a	Cooking & nutrition:	Structure: Pavilions
Year 4	shaduf	Adapt a recipe	Investigate and model
	Link with History Ancient	Our refreshed Y4 cooking	frame structures to
	Egypt topic	and nutrition unit	improve their stability,
		including opportunities for	then apply this research
	Electrical Systems:	children to learn a basic	to design and create a
	Torches	biscuits recipe and adapt	stable, decorated
	Identify the difference	it to suit a target	pavilion.
	between electrical and	audience.	
	electronic products.		
	Evaluate a range of		
	existing torches and their		
	features, then develop a		
	new functional torch		
	design.		
Year 5	Mechanical systems:	Cooking and nutrition:	Textiles: Stuffed toys
	Pop up books	What could be healthier	Design a stuffed toy and
	Create a functional four-	Discover the farm to fork	make decisions on
	page pop-up storybook	process, understand the	materials, decorations
	design, using lever,	key welfare issues for	and attachments
	sliders, layers and	rearing cattle. Compare	(appendages), after
	spacers to create paper-	the nutritional value of	learning how to sew a
	based mechanisms.	existing sauces and	blanket stitch.
		develop a healthier	
		recipe.	
	Electric systems:	Cooking and nutrition:	Mechanical systems:
Year 6	Steady hand game	Come dine with me	Automata toys
	Understand what is	(Greek themed)	Develop a functional
	meant by fit for purpose	Develop a three-course	automata window display,
	design and form follows	menu focused on three	to meet the requirements
	function. Design and	key ingredients, as part of	in a design brief. Explore
	develop a steady hand	a paired challenge to	and create cam, follower
	game using a series	develop the best class	and axle mechanisms to
	circuit, including housing	recipes. Explore each key	mimic different
	and backboard.	ingredient's farm to fork	movements.
		process.	