





ſ	Year 1	Autumn 2	Spring 1	Spring 2	Summer 2
	. 53, 1	Structures: Constructing A Windmill	Textiles: Puppets	Mechanisms: Wheels and axels	Food: Fruit and
		Design, decorate and build a windmill for	Explore different ways of joining fabrics	Learn about the main components of a	Vegetables
		their client to live in, developing an	before creating hand puppets based	wheeled vehicle; experiment with	Handle and explore
		understanding of different types of	upon characters from a well-known	mechanisms to develop understanding	fruits and vegetables
		windmill, how they work and their key	fairytale. Develop technical skills of	of how wheels, axels and axel holders	and learn how to
		features. (3 weeks)	cutting, glueing, stapling and pinning. (4	work; assume the role of a mechanic to	categorise, before
		100001 (0 110010)	weeks)	problem-solve why wheels won't rotate;	undertaking taste
		Mechanisms: Making A Moving Story	Weeksy	demonstrate learning by designing and	testing to establish
		Book		building own moving vehicles. (4 weeks)	chosen ingredients for
		Experiment with sliders before planning			the smoothie they will
		and making three pages of a moving			make and design
		story book, based on a familiar story.			packaging for. (4
		Draw the page backgrounds, make the			lessons to be
		moving parts and assemble it. (3 weeks)			completed in Healthy
					Week)
İ	Year 2	Autumn 2	Spring 1	Summer 2	,
		Mechanisms: Moving Monsters	Mechanisms: Fairground Ride	Structures: Baby Bear's Chair	
		Learn terms: pivot, lever and linkage.	Continued (2/4 lessons)	Design a chair based on client's needs.	
		Design a monster that will move using a		Explore ways of building it so that it is a	
		linkage mechanism. Practise making	Food: A Balanced Diet	strong and stable structure. Make and	
		linkages of different types, Apply skills to	Explore what makes a balanced diet,	evaluate (4 lessons)	
		make a moving monster. (4 lessons)	taste test food combinations of different		
		-	food groups. Make a wrap that includes	<u>Textiles: Pouches</u>	
		Mechanisms: Fairground Ride	a healthy mix of protein, vegetables and	Design based on need. Make an accurate	
		Design and create Ferris wheels,	dairy, and learn about the term 'hidden	template. Cut out and join fabric using	
		considering how the different	sugars' (4 lessons)	simple running stitch. Referring back to	
		components fit together so that their		original design, use finishing techniques	
		wheels rotate and structures stand		to improve.	
		freely. Select appropriate materials and		(3/4 lessons)	
		develop cutting and joining skills to			
		create a final product.			
		(2/4 lessons)			

Year 3	Autumn 2 Textiles: Cushions Learn to sew cross stitch and applique and then apply this to the design and creation of a cushion	Spring 2 Food: Eating Seasonally Learn about seasonality and how the climate a food is grown in can alter the way it tastes and make a crumble and tart using seasonal ingredients. Structures: Castles Learn more advanced construction techniques and plan for complex arrangements of structures with continual emphasis on evaluating throughout.	Summer 2 Mechanical: Pneumatic systems Examine pneumatic systems using syringes and balloons then apply their understanding of mechanical systems to create their own pneumatic toys.	
Year 4	Autumn 2 Mechanisms: Sling shot cars Use kinetic energy to power and slingshot cards, designing and making their own and then testing their effectiveness	Spring 2 Structures: Pavilions Be introduced to pavilion architecture. Pupils experiment with frame structures before designing their own landscape and pavilion using a wider range of materials and construction techniques.	Summer 2 Food: Adapting a recipe Adapt a recipe by adding or altering the ingredients and then work in groups to create a final design that falls within a set budget. Electrical: Torches Be introduced to electricity and electrical safety before making a simple circuit to create a functioning torch.	
Year 5	Autumn 1 Food: What could be healthier? Adapt a Bolognese recipe by adding or altering ingredients and learn about the ethical and hygienic issues of food. Electrical systems: Electrical greeting cards Explore electric circuits and apply this knowledge to design and make their own electric greeting cards.	Spring 1 Mechanisms: Pop up books Utilise a range of mechanisms and construction techniques to create a pop up story book.	Summer 2 Structures: Explore and experiment with a range of different bridge structures, forces and components involved in bridge building before designing and making their own to test to destruction	
Year 6	Autumn 2 Food: Come dine with me	Spring 2 Structures: Playgrounds	Summer 1	

Work in groups to research and prepare	Have the opportunity to be creative and	Mechanisms: Automata toys	
a 3 course meal that will be taste tested	experiment with a wide range of	Develop their wood working skill and	
and scored as well as researching the	equipment and materials applying prior	explore cams to design and make	
journey of their main ingredient from	knowledge of net and frame structures	mechanical window displays.	
farm to fork.	as well as bracing and cladding to design		
	and make a playground.		
Electrical Systems: Steady hand games			
Create electromagnetic toys and more			
complex electronic circuits to create a			
steady hand game.			