

By the end of Key Stage 2 pupils, through a variety of creative and practical activities, will be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making.

As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open the door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordable and well, now and in later life.

Pupils should be taught to:

- 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.

	Year 2 – Prior learning	Year 3	Year 4	Year 5	Year 6
Themes	<u>Mechanisms</u>	Structures – (Forest Schools) to	Structures: Safari	Structures: Design and	Structures: To design and
	 Explore simple 	make an Iron Age Roundhouse	buggies	create a wooden bridge.	construct an Air raid shelter
	mechanisms, such as	using natural materials in the	Electrical: Develop a	Mechanisms: Pop up books	Electrical: Design and
	sliders and levers, and	school grounds	new functional torch	using levers and sliders	develop a steady hand
	simple structures.	Mechanisms: Pneumatic	design.	Textiles: Design and make a	game.
	 Learn how materials 	monsters	Textiles: Design and	posy bag	Food: Celebrating culture
	can be joined to allow	Textiles – Design and make a	create a book sleeve	Food technology:	and seasonality.
	movement.	cushion.	Food: Adapting a recipe	Seasonality -Excellent small	Forest schools: Wartime
	 Join and combine 	Food: Eating seasonally		cake and pottage	recipes
	materials using simple			Forest Schools	Digital world: Navigating
	tools and techniques.			Weaving – wattle and daub	the world
	 Generate ideas based 	 Designing a moving creature 		 Designing a pop-up book 	
Design - Mechanisms	on simple design criteria	which uses a pneumatic system		which uses a mixture of	
(Understanding	and their own	 Developing design criteria from 		structures and mechanisms	
contexts users and	experiences	a design brief		 Naming each mechanism, 	
nurnoses Generating	 Develop, model and 	 Generating ideas using 		input and output accurately	
developing modelling	communicate their ideas	thumbnail sketches and exploded		 Storyboarding ideas for a 	
and communicating	through drawings and	diagrams		book	
ideas)	mock-ups with card and	 Learning that different types of 			
ideas)	paper.	drawings are used in design to			
		explain ideas clearly.			



Crawley Ridge Junior School Skills Progression

Design and Technology

	• Select and use tools,	Creating a pneumatic system to	• Following a design brief	
	explaining their choices.	create a desired motion	to make a pop up book.	
	to cut shape and join	Building secure housing for a	neatly and with focus on	
	paper and card.	pneumatic system	accuracy	
	• Use simple finishing	Ising syringes and balloons to	Making mechanisms	
	techniques suitable for	create different types of	and/or structures using	
Make – Mechanisms	the product they are	nneumatic systems to make a	sliders, pivots and folds to	
	creating	functional and appealing	produce movement	
(Construction)	creating.		a Using lawars and spacers	
(Planning, practical skills		a Calasting materials due to their	• Using layers and spacers	
and techniques)		• Selecting materials due to their	to hide the workings of	
		functional and aesthetic	mechanical parts for an	
		characteristics	aesthetically pleasing	
		 Manipulating materials to 	result.	
		create different effects by		
		cutting, creasing, folding,		
		weaving.		
Evaluation -	• Evaluate their product	 Using the views of others to 	 Evaluating the work of 	
Mechanisms	by discussing how well it	improve designs	others and receiving	
	works in relation to the	 Testing and modifying the 	feedback on own work	
	purpose and the user	outcome, suggesting	 Suggesting points for 	
	and whether it meets	improvements	improvement	
	design criteria.	• Understanding the purpose of		
		exploded-diagrams through the		
		eves of a designer and their		
		client.		
Mechanisms - Technical	•Understand that	Understanding how pneumatic	• Knowing that an input is	
Knowledge	different mechanisms	systems work	the motion used to start a	
	produce different types	 Learning that mechanisms are 	mechanism	
	of movement	a system of parts that work	Knowing that output is	
		together to create motion	the motion that happens as	
		• Understanding that pneumatic	a result of starting the input	
		systems can be used as part of a	Knowing that	
		mechanism	mechanisms control	
		• Learning that pneumatic	movement	
		systems force air over a distance	Describing mechanisms	
		to create movement	that can be used to change	
			and kind of mation into	
			one kind of motion into	
			another.	



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