

## <u>Year 3</u>

	Key Skills	Key Knowledge	Key Vocabulary
Autumn 2 Textiles: Cushions	<ul> <li>Designing and making a template from an existing cushion and applying individual design criteria</li> <li>Following design criteria to create a cushion.</li> <li>Selecting and cutting fabrics with ease using fabric scissors.</li> <li>Threading needles with greater independence.</li> <li>Tying knots with greater independence.</li> <li>Sewing cross stitch to join fabric.</li> <li>Decorating fabric using appliqué.</li> <li>Completing design ideas with stuffing and sewing the edges.</li> <li>Evaluating an end product and thinking of other ways in which to create similar items.</li> </ul>	<ul> <li>To know that appliqué is a way of mending or decorating a textile by applying smaller pieces of fabric.</li> <li>To know that when two edges of fabric have been joined together it is called a seam.</li> <li>To know that it is important to leave space on the fabric for the seam.</li> <li>To understand that some products are turned inside out after sewing so the stitching is hidden.</li> </ul>	<ul> <li>appliqué</li> <li>cross-stitch</li> <li>design</li> <li>equipment</li> <li>fabric</li> <li>patch</li> <li>running stitch</li> <li>thread</li> <li>seam</li> <li>texture</li> <li>knot</li> </ul>

Spring 2	• Designing a toy that uses a	To understand how	• mechanism
	pneumatic system.	pneumatic systems work.	• lever
	• Developing design criteria	• To understand that	• pivot
Mechanisms: Pneumatic	from a design brief.	pneumatic systems can be	<ul> <li>linkage system</li> </ul>
Toys	<ul> <li>Generating ideas using</li> </ul>	used as part of a	<ul> <li>pneumatic system</li> </ul>
1095	thumbnail sketches and	mechanism.	<ul> <li>input</li> </ul>
	exploded diagrams.	<ul> <li>To know that pneumatic</li> </ul>	<ul> <li>output</li> </ul>
	<ul> <li>Learning that different</li> </ul>	systems operate by	<ul> <li>component</li> </ul>
	types of drawings are used	drawing in, releasing and	<ul> <li>thumbnail sketch</li> </ul>
	in design to explain ideas	compressing air.	<ul> <li>research</li> </ul>
	clearly.		<ul> <li>adapt</li> </ul>
	<ul> <li>Creating a pneumatic</li> </ul>		<ul> <li>properties</li> </ul>
	system to create a desired		<ul> <li>reinforce</li> </ul>
	motion.		• motion
	<ul> <li>Building secure housing for</li> </ul>		
	a pneumatic system		
	<ul> <li>Using syringes and balloons</li> </ul>		
	to create different types		
	of pneumatic systems to		
	make a functional and		
	appealing pneumatic toy.		
	<ul> <li>Selecting materials due to</li> </ul>		
	their functional and		
	aesthetic characteristics.		
	<ul> <li>Manipulating materials to</li> </ul>		
	create different effects		
	by cutting, creasing,		
	folding and weaving.		
	<ul> <li>Using the views of others</li> </ul>		
	<ul> <li>Osing the views of others to improve designs.</li> </ul>		
	to improve designs.		

	<ul> <li>Testing and modifying the outcome, suggesting improvements.</li> <li>Understanding the purpose of exploded-diagrams through the eyes of a designer and their client.</li> </ul>		
Summer 2 Digital World: Electronic Charm	<ul> <li>Developing design ideas for a technology pouch.</li> <li>Drawing and manipulating 2D shapes, using computer-aided design, to produce a point of sale badge.</li> <li>Using a template when cutting and assembling the pouch.</li> <li>Following a list of design requirements.</li> <li>Selecting and using the appropriate tools and equipment for cutting, joining, shaping and decorating a foam pouch.</li> <li>Applying functional features such as using foam to create soft buttons.</li> <li>Analysing and evaluating an existing product.</li> </ul>	<ul> <li>To understand that in programming a 'loop' is code that repeats something again and again until stopped.</li> <li>To know that a Micro:bit is a pocket-sized, codeable computer.</li> <li>Writing a program to control (button press) and/or monitor (sense light) that will initiate a flashing LED algorithm.</li> </ul>	<ul> <li>smart wearables</li> <li>product design</li> <li>digital revolution</li> <li>technology</li> <li>analogue</li> <li>digital</li> <li>feature</li> <li>function</li> <li>digital world</li> <li>Micro:bit</li> <li>electronic products</li> <li>program</li> <li>loops</li> <li>initiate</li> <li>simulator</li> <li>control</li> <li>monitor</li> <li>sense</li> <li>template</li> <li>develop</li> <li>fasten</li> <li>test</li> <li>user</li> </ul>

	<ul> <li>Identifying the key features of a pouch.</li> </ul>		<ul> <li>CAD (computer-aided design)</li> <li>point of sale</li> <li>display</li> <li>badge</li> <li>stand</li> </ul>
Health Week Eating seasonally	<ul> <li>Creating a healthy and nutritious recipe for a savoury tart using seasonal ingredients, considering the taste, texture, smell and appearance of the dish.</li> <li>Knowing how to prepare themselves and a workspace to cook safely in, learning the basic rules to avoid food contamination.</li> <li>Following the instructions within a recipe.</li> <li>Establishing and using design criteria to help test and review dishes.</li> <li>Describing the benefits of seasonal fruits and vegetables and the impact on the environment.</li> <li>Suggesting points for</li> </ul>	<ul> <li>To know that not all fruits and vegetables can be grown in the UK.</li> <li>To know that climate affects food growth.</li> <li>To know that vegetables and fruit grow in certain seasons.</li> <li>To know that cooking instructions are known as a 'recipe'.</li> <li>To know that imported food is food that has been brought into the country.</li> </ul>	<ul> <li>Climate</li> <li>Imported</li> <li>Natural</li> <li>Reared</li> <li>Seasonal</li> <li>Diet</li> <li>Ingredients</li> <li>Processed</li> <li>Recipe</li> <li>Seasons</li> <li>sugar</li> </ul>
	improvement when making a seasonal tart.		