

EYFS		naterials and changes they notice. order to develop their ideas about how to u cide which materials to use to express ther	
Nursery	Autumn	Spring	Summer
	Helping hands	Into the wild	Making a splash
Cycle A	<ul> <li>Can you combine ingredients to achieve a planned effect? (gingerbread man)</li> <li>Name variety of ingredients.</li> <li>Use mixing skills.</li> </ul>	<ul> <li>Can you use a needle and thread to complete a simple stitch?</li> <li>Thread a needle.</li> <li>Create a simple stitch on material.</li> </ul>	<ul> <li>What shape would a box be?</li> <li>Place materials in the correct order for a planned outcome.</li> <li>Select appropriate tools to shape and join materials.</li> </ul>
	Autumn	Spring	Summer
	Helping hands	Move it	Secret garden
Cycle B	<ul> <li>Can you join materials to create a photo frame?</li> <li>Understand that tools are used for a purpose.</li> <li>Understand different methods of joining materials together.</li> </ul>	<ul> <li>Can you use tools with a purpose in mind?</li> <li>To use tools with support</li> <li>Choosing the appropriate method of joining materials together.</li> </ul>	<ul> <li>Can you make a bird feeder for your garden?</li> <li>Choose appropriate tools to adapt your work.</li> <li>Choose materials for a function or purpose.</li> </ul>



EYFS	<ul> <li>Reception:</li> <li>Return to and build on their previous learning, refining ideas and developing their ability to represent them.</li> <li>Create collaboratively, sharing ideas, resources and skills.</li> <li>ELG:</li> <li>Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; -</li> <li>Share their creations, explaining the process they have used;</li> </ul>		
Reception	Autumn	Spring	Summer
	Helping hands	Into the wild	Making a splash
Cuelo A	<i>Can you use a bridge technique to cut fruit?</i>	Can you use a simple running stitch?	Can you make a treasure chest that opens and closes?
Cycle A	<ul><li>Use a knife safely and competently.</li><li>Discuss which foods are healthy and</li></ul>	• Use a needle and thread effectively and safely.	• Look at treasure chests and how they open and close.
	unhealthy.	Design your own puppet.	<ul> <li>Select materials to create a hinge.</li> <li>Plan the finish of the treasure chest</li> </ul>
			and how it will look.
	Autumn	Spring	Summer
	Helping hands	Move it	Secret garden
Cycle B	How can you make a photo frame stand on its own?	Can you use a saw safely and effectively?	Can you make a bug hotel that will stay dry in the rain?
	<ul> <li>Explore a range of methods for joining materials.</li> <li>Explore the use of a range of tools.</li> </ul>	<ul> <li>Select tools for a purpose.</li> <li>Select appropriate method to join materials effectively.</li> </ul>	<ul> <li>Select natural materials to combine together.</li> <li>Assemble materials to function as a bug hotel.</li> </ul>



KS1	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts		
Year 1 & 2	Autumn	Spring	Summer
	The great food journey	London's burning	Just the ticket
	What vegetables would go together in a soup?	Can you create a 3D Stuart house?	How can you make your vehicle move?
Cycle A	<ul> <li>To use cutting skills for chopping vegetables.</li> <li>To taste different vegetables to work out which will go best together.</li> </ul>	<ul> <li>Research the Stuart era and the houses that were built then.</li> <li>Explore different techniques to make your model stronger, stiffer and more stable.</li> </ul>	<ul> <li>Investigate movement. Testing out different rolling methods.</li> <li>Selecting a final design for a moving vehicle and finishing the product to a working standard.</li> </ul>
	Autumn	Spring	Summer
	Little explorers	Dungeons and dragons	Adventure on the high sea
Cycle B	Can you design and create your own planter?	How will you make your drawbridge open and close??	Can you design and make a purposeful and functional boat?
	<ul> <li>To explore techniques of joining materials together.</li> <li>To use tools for a purpose.</li> </ul>	<ul><li>Use a simple winch mechanism.</li><li>Design the front of your castle.</li></ul>	<ul> <li>Explore materials and their properties eg waterproof.</li> <li>To build a structure that will float on water.</li> </ul>
Ongoing	In all units: Designing, making, evaluation	, acquiring and applying technical knowled	lge.



KS2	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts.		
Year 3 & 4	Autumn Prehistoric Park	Spring Under the surface	Summer Life beneath the sand
Cycle A	<ul> <li>Can you use a basic over stitch effectively?</li> <li>To join materials using a simple over stitch.</li> <li>To design a stone age satchel.</li> </ul>	<ul> <li>Can you make a moving chariot?</li> <li>Use wheels and axles to make your chariot move.</li> <li>Research and design a Roman chariot.</li> </ul>	<ul> <li>How did the Egyptians make bread?</li> <li>Research bread recipes and cooking methods that the Egyptians used.</li> <li>Use appropriate methods of combining ingredients.</li> <li>Follow a simple recipe.</li> </ul>
	Autumn	Spring	Summer
	Prehistoric Park	Under the surface	Life beneath the sand
	What foods were available in the Stone	Can you create a volcano with a	Can you create a working Shaduf?
Cycle B	Age?	pneumatic system?	
Cycle B			<ul> <li>Research a Shaduf and what they were used for.</li> <li>Sketch a labelled diagram of their Shaduf.</li> <li>Test a range of levers for their Shaduf.</li> </ul>



KS2	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts.		
Year 5 & 6	Autumn Out of this world	Spring After the heartbreak	Summer Magic, monsters and mayhem
Cycle A	<ul> <li>Can you design a moon a battery powered moon buggy?</li> <li>Making a working model incorporating electrical components.</li> <li>Making a product move using electrical components.</li> </ul>	<ul> <li>How did the Victorians influence the textile industry?</li> <li>To understand the process of weaving.</li> <li>To create a functioning weaving frame.</li> </ul>	<ul> <li>What nutritional value do certain foods have?</li> <li>Research recipes used by the Vikings.</li> <li>Use a variety of cooking skills effectively.</li> <li>To combine ingredients to achieve a planned effect.</li> </ul>
Year 5 & 6	Autumn Olympic challenge	Spring Friend of foe	Summer Peace, poppies, and warfare
Cycle B	<ul> <li>Can you use a CAM mechanism to create movement?</li> <li>Research different CAM's and their functions.</li> <li>To design your own Greek soldier</li> </ul>	<ul> <li>How can an electrical component be incorporated into a design and technology project?</li> <li>To research the use of electrical component in a LED lamp.</li> <li>To design your own LED lamp.</li> <li>To use a variety of tools competently.</li> </ul>	<ul> <li>Can you use a micro-bit to programme a sound into a structure?</li> <li>Research WW2 air-raid shelters.</li> <li>Programme a micro-bit with a chosen algorithm.</li> </ul>
Ongoing	In all units: Designing making evaluation	n, acquiring and applying technical knowle	dae