

	Autumn	Spring	Summer
Reception	<p>Children will know how to use adhesive tape and different sorts of glue for their chosen purpose.</p> <p>Children will know how to make a treasury tag join and a cardboard flange join.</p>	<p>Children will know how to make an L-brace and a slot join.</p> <p>Children will know how to create tabs to make a standing wall.</p>	<p>Children will know how to make a split pin join.</p> <p>Children will know how to sew to join</p>
Year 1	<p>Structures - Constructing Windmills</p>	<p><u>Textiles – sew a dressing table mat using binka and embroidery thread</u></p> <p>Learning new stitches – running stitch Designing mat Sewing mat Evaluating</p>	<p><u>Food – fruit and vegetables</u></p> <p>Fruit or vegetable Where fruit and vegetables grow Smoothie ingredient tasting Making smoothies</p>
Year 2	<p><u>Structures – Babies Chair</u> Stability, strengthening, fixing and testing</p> <p><u>Textiles</u> Design and make puppets for puppet show</p>	<p><u>Mechanisms – a moving monster</u> Pivots, levers and linkages Making linkages using card, split pins Designing a monster Making a monster using card</p>	<p><u>Mechanisms</u> <u>Wheeled vehicles</u> – learning to use tools safely</p>
Year 3	<p><u>Food – Eating seasonally</u> Food from different climates Follow a Japanese recipe British seasonal foods Rainbow foods – nutrients in fruit and vege Making tarts using seasonal produce</p>	<p><u>Digital world – electronic charm</u> Explore smart wearables – looking at a micro-bit Programme an e charm- Create and decorate a foam pouch Design a sale poster for charm using IT</p>	<p><u>Structures – constructing a castle</u> Features of a castle Designing a castle -create a net and label Nets and structures Building a castle and decorate</p>
Year 4	<p><u>Structures – Pavilions</u> Exploring frame structures using tooth picks Design a pavilion Make a strong frame (lolly sticks, tissue, tooth picks) Clad their structure</p> <p>Build a Roman Road – team work using boxes (links Pompeii)</p>	<p><u>Mechanisms - making a sling shot car</u> Make a chassis and slingshot mechanism – learn how slingshot cars work Designing car body Making car body Assembly and testing</p>	<p><u>Electrical systems – torches</u> Electrical products -differences between electrical and electronic and how to create a simple circuit Evaluating torches – look at a range of torches and identify features – housing, reflector, circuit and switch Torch design Torch assembly</p>
Year 5	<p><u>Mechanisms</u> Making a pop up book Pop up book design, make a pop up book and add illustrations and writing</p> <p><u>Textiles</u></p>	<p><u>Electrical Systems – electronic greeting cards</u> History and development of cards Learn about series circuits and how to integrate Create a mood board Complete electronic greeting card</p>	<p><u>Structures</u> Spaghetti bridges – group, make the strongest bridge competition look at different bridge designers and designs</p>

	<p><u>Weaving</u> Structures Design and make a house for a strong anglo saxon house that will stand up.</p>	<p><u>Textiles</u> Design and make a stuffed easter eggs – sew and decorate with initials.</p>	
Year 6	<p><u>Electrical systems - Steady Hand game design</u> <u>Business Enterprise</u> <u>Textiles – Poppies</u> Preparing fabric – cut out using template Assembling and sew together Decorate</p>	<p><u>Mechanisms - Automatas Toys</u> Preparing wood for assembly, measuring, mark making and cutting Frame assembly Experimenting with cams to inform a design decision. To apply finishing touches</p>	<p><u>Digital World – navigating the world</u> Navigating the world Programming a navigating tool Product concept 3D Cad Models Product Pitch</p>