



Design and Technology Subject Overview



Year Group	Autumn Term	Spring Term	Summer Term
Ducklings	<p style="text-align: center;">See Separate Planning for EYFS</p> <p style="text-align: center;">*Cook something different every half term.</p>	<p style="text-align: center;">See Separate Planning for EYFS</p> <p style="text-align: center;">*Cook something different every half term.</p>	<p style="text-align: center;">See Separate Planning for EYFS</p> <p style="text-align: center;">*Cook something different every half term.</p>
Year 1	<p>Mechanisms – Making a moving story book. Explore slider mechanisms and the movement they output, to design, make and evaluate a moving story book from a range of templates.</p>	<p style="text-align: center;">Textiles – Puppets. Explore methods of joining fabric. Design and make a character based hand puppet using a preferred joining technique, before decorating.</p>	<p style="text-align: center;">Mechanisms – Wheels and Axels Learn about the key parts of a wheeled vehicle, to develop an understanding of how wheels, axles and axle holders work. Design and make a moving vehicle.</p>
Year 2	<p style="text-align: center;">Design and Make – Christmas Decorations Select appropriate materials and develop their cutting and joining skills. Introduction to sewing. Pupils make their own template, accurately cut their fabric and sew a basic running stitch.</p>	<p style="text-align: center;">Sculpture and 3D- Clay Houses Developing their ability to work with clay, children learn how to create simple thumb pots then explore the work of sculptor Rachel Whiteread and apply her ideas in a final piece that uses techniques such as cutting, shaping, joining and impressing into clay.</p>	<p style="text-align: center;">Making – Bridges Explore different shapes and materials. Pupils practise making linkages (focus on strength) and experiment with various materials to bring their bridges to life.</p>
Year 3	<p style="text-align: center;">See Art and Design Overview</p>	<p style="text-align: center;">Cooking and Nutrition – eating seasonally Pupils discover when and where fruits and vegetables are grown and learn about seasonality in the UK. They look at the relationship between the colour of fruits and vegetables and their health benefits by making three dishes.</p>	<p style="text-align: center;">Textiles – Egyptian collars Introduce two new skills to add to the pupils' repertoire: cross stitch and appliqué. Pupils apply their knowledge to the design, decoration and assembly of their own cushions or Egyptian collars.</p> <p style="text-align: center;">Structures – Constructing a Castle Learning about the features of a castle, pupils design and make one of their own. They will also be using configurations of handmade nets and recycled materials to make towers and turrets before constructing a stable base.</p>
Year 4	<p style="text-align: center;">Mechanical Systems – Making a slingshot Transform lollipop sticks, wheels, dowel and straws into a slingshot. Pupils use a glue gun to construct, make the launch mechanism, design and create the structure.</p>	<p style="text-align: center;">Structure – Pavilions Exploring pavilion structures, learning about what they are used for and investigate how to create strong and stable structures before designing and creating their own pavilions, complete with cladding.</p>	<p style="text-align: center;">Textiles – Fastenings Building upon their sewing skills from previous years, pupils design and create a book sleeve; exploring a variety of fastenings and selecting the most appropriate for their design based on strength and appropriate-use.</p>

			<p>Cooking and Nutrition – Adapting a Recipe Work in groups to adapt a simple biscuit recipe, to create the tastiest biscuit ensuring that their creation comes within the given budget of overheads and costs of ingredients</p>
<p>Year 5</p>	<p>Mayan Masks Look at Mayan style art and create a design. Experiment with different joining techniques to use mod-rock to form the mask structure. Before decorating.</p>	<p>Cooking and Nutrition – What could be healthier Research and modify a traditional bolognese sauce recipe to make it healthier. Cook improved versions, creating appropriate packaging and learn about where the ingredients the importance of animal welfare when farming cattle.</p>	<p>Mechanical Systems – Pop up Book Create a four-page pop-up story book design, incorporating a range of functional mechanisms that use levers, sliders, layers and spacers to give the illusion of movement through interaction.</p>
<p>Year 6</p>	<p>Electrical Systems Explore series circuits further and introduce motors. Explore how the design cycle can be approached at a different starting point, by investigating an existing product, which uses a motor, or buzzer to encourage pupils to problem-solve and work out how the product has been constructed, ready to develop their own.</p>	<p>Textiles Select fabrics, use templates, pin, decorate and stitch materials together to create a panel that depicts a scene from WWII. Create or use a pattern template. Based on Overlord Tapestry.</p>	<p>Mechanical Systems Use woodworking skills, pupils construct an automata; measuring and cutting their materials, assembling the frame, choosing cams and designing the renewable energy that sits on the followers to form an interactive shop display.</p> <p>Cooking and Nutrition Research and prepare a three-course meal and taste-test and score their food. Research the journey of their main ingredient from ‘farm to fork’ or write a favourite recipe.</p>