

## Design and Technology Curriculum



Year Group	Autumn Term	Spring Term	Summer Term
<p><b>Year 5</b> (2 lessons a week)</p>	<p><b>Product Design: Key Rack</b> Pupils research and design a key rack against the given brief and specification. They learn woodwork skills, such as accurate measuring, drilling, sawing and sanding to create an attractive key rack.</p>	<p><b>Food Technology: Healthy Eating</b> Pupils learn about health, safety and hygiene in the food room. Pupils cook on a fortnightly rotation and learn basic cooking skills such as peeling, cutting and stewing. Recipes include leek and potato soup with hedgehog bread rolls, fruity flapjacks and banana bread.</p>	<p><b>Textiles: Decorative Bags</b> Pupils learn how to use tie dye and block printing to decorate fabric. They learn to cut fabric accurately, pin, tack and use the sewing machine to create a bag. They will also complete their sewing machine 'driving licence'.</p>
<p><b>Year 6</b> (2 lessons a week)</p>	<p><b>Food Technology: Baking and Decoration</b> Pupils learn about health, safety and hygiene in the food room. Pupils cook on a fortnightly rotation and learn basic cooking and decorative skills using a range of icing techniques. Recipes include 3D iced biscuits, decorated fairy cakes and a Christmas cake.</p>	<p><b>Textiles: 'Ibeanies'</b> Pupils will learn to use wax batik and/or printing to decorate their own fabric in order to make a 3D pyramid suitable for leaning books, tablets or phones on. Inspiration will come from researching a variety of Art Movements. Skills include using a sewing machine to create a complex shape.</p>	<p><b>Product Design: Puppets</b> Pupils will use oblique designing to draw a shaped 3D shape and develop their woodwork skills by shaping wood using a Coping and Tenon saw and using the Pillar Drill to create a puppet based on a superhero character.</p>
<p><b>Year 7</b> (3 lessons a week)</p>	<p><b>Product Design: Puppets</b> Pupils will use isometric designing to design a shaped 3D shape and develop their woodwork skills by creating a cross halving joint using a chisel, shaping wood using a Coping and Tenon saw and using the Pillar Drill to create a puppet based on a superhero character.</p>	<p><b>Food Technology: Family Meals</b> Pupils learn about how to cook on gas and electric hobs, as well as the associated health and safety risks. They prepare and cook a range of main course meals on a fortnightly rotation. Recipes include macaroni cheese, bolognese or chilli con carne and a chocolate tart.</p>	<p><b>Textiles: Dumpy Doorstops</b> Pupils use the Mexican 'Day of the Dead' festival to inspire and create a decorative doorstep using printing, hand embroidery stitches and appliqué. They will also build on sewing machine skills to create a curved and 3D shape.</p>
<p><b>Year 8</b> (3 lessons a week)</p>	<p><b>Textiles: Bag belt</b> Pupils will be introduced to electronic textiles, they will make a geometric animal using a choice of different techniques (oil batik or applique) which can be attached to a bag. This will incorporate LEDs and reflective tape to help keep the wearer safe. Students will learn about smart materials and basic circuits during this project.</p>	<p><b>Product Design: Gumball Machines</b> Pupils will build upon previous workshop skills learning to fine tune their precision in measuring and cutting. They will also have an introduction into mechanisms and create a functional gumball machine to house their favourite sweets.</p>	<p><b>Food and Nutrition: Multicultural Foods</b> An introduction into preparing and cooking a range of multicultural meals with an emphasis on flavourings. Students will learn how to create meals originating from a variety of countries, researching the origins and planning for adaptation to include dietary needs.</p>

