

<b>OVERVIEW</b>	<p>In Design Technology we offer an inclusive curriculum that allows pupils to learn about a wide range of knowledge and skills based on the disciplines of cooking &amp; nutrition, product design &amp; resistant materials. Each component subject is taught on a termly rotation.</p> <p>In Year 8, students develop deeper knowledge around food &amp; nutrition, and develop a wider range of design and practical skills needed to produce saleable products.</p>		
<b>COOKING &amp; NUTRITION</b>	<p>Study continues by learning about different weights, measures and ratios of ingredients and using different baking techniques with the use of various raising agents. Pupils also explore modification of recipes is explored in response to differing dietary needs.</p> <p>Dishes produced in Year 8: Muffins; Garlic Bread; Fajitas; Stir-fry; Spaghetti Bolognese; Scone Pizza; Chow Mein; Quiche and Shortbread.</p>	<p><b>Assessment</b></p> <p>Pupils are teacher assessed on a range of practical cooking skills including safe working, quality of outcome and evaluations.</p> <p>This is reported as a termly percentage.</p>	<p><b>Personal Development</b></p> <p>Protection of individual liberty is reflected in diversity of dietary needs and food allergies.</p> <p>Pupils develop increased resilience and independence.</p>
<b>PRODUCT DESIGN</b>	<p>Pupils examine the environmental impact of plastics and the importance of recycling. They explore the use of production planning techniques and use of exploded views to aid product development.</p> <p>Practical skills include thermoforming using a vacuum forming machine alongside drilling and filing skills. Electronics and soldering skills are practiced. The laser cutter is used to produce a design of their own choosing to produce a bespoke night-light.</p>	<p><b>Assessment</b></p> <p>For each project, pupils are teacher assessed on the quality of their designing, practical outcomes, and evaluation skills</p> <p>This is reported as a termly percentage.</p>	<p><b>Personal Development</b></p> <p>Pupils learn about the moral imperative to protect the planet and minimise wastage.</p> <p>They are given the opportunity to gain confidence with skills such as soldering.</p>
<b>RESISTANT MATERIALS</b>	<p>The focus for this rotation is around forces, mechanisms and tolerance which are essential to the functioning of the modern world. They examine how different forces act on materials and how mechanisms can be used to solve problems.</p> <p>The pinball game project allows pupils to use their knowledge and skills to produce a working scale prototype which is then tested for functionality and dimensional accuracy.</p>	<p><b>Assessment</b></p> <p>For each project, pupils are teacher assessed on the quality of their designing, practical outcomes, and evaluation skills</p> <p>This is reported as a termly percentage.</p>	<p><b>Personal Development</b></p> <p>Applying creativity to the design brief is a key focus allowing pupils to express their individuality.</p> <p>They are encouraged to take an interest in the way products function.</p>

### Useful resources for supporting your child at home

Knowledge Organiser – The Design Technology knowledge organisers contains key facts students need to know about key concepts, tools and techniques. You could test your child on their ability to remember these facts or get your child to self-quiz using the ‘Read, Cover, Write, Check’ technique.

Cooking – Encourage your child to cook at home, whether for pleasure or to provide meals for the whole family.