

# Design and Technology KS3 Curriculum Overview

<p style="text-align: center;"><b>KS3</b></p>	<p style="text-align: center;"><b>Year 7</b> 2 x 55 min lessons for approx. 11 weeks in Wood, Metal/Plastics and Food</p>	<p style="text-align: center;"><b>Year 8</b> 2 x 55 min lessons for approx. 11 weeks in:- <b>Graphics.</b> <b>Wood experience = 1/2 the YearGroup.</b> <b>Metal/Plastics = the other 1/2 of Year Group.</b> <b>Food &amp; Textiles = 1x11 lessons for the whole Year Group )</b></p>	<p style="text-align: center;"><b>Year 9</b> 2 x 55 min lessons for approx. 11weeks in :- <b>Food and Graphics.</b> <b>Again, Wood experience = 1/2 the Year Group.</b> <b>Metal/Plastics = the other 1/2 of Year Group</b></p>
<p><b>Theory Taught</b></p>	<p>Healthy eating, design a healthy snack. Health and Safety issues in Technology. 3D sketching &amp; rendering. Investigation into Structures. Simple Electronics investigation. Simple CAD ('2D Design') tutorial. Simple designing techniques (shape &amp; form). Simple hand and machine skills in Wood, Metal &amp; Plastic. Properties of resistant materials.</p>	<p>The Function of ingredients. Design product based on biscuits. Major '2D Design' CAD Tutorial. Further Health and Safety issues in Technology. Isometric Sketching, Orthographic projection. Small graphics design project Introduction to use of sewing machine. Simple design folder work.</p>	<p>Remind &amp; Review Health and Safety issues in Technology. Packaging and labelling. Pastry making skills, handling and shaping. Design task based on pastry product. '2D Design' - finishing tutorial to encourage student independence. 'Paintshop Pro' Basics. Research into famous Movements &amp; Designers. Use of templates. Assembly and finishing techniques in resistant materials.</p>
<p><b>Practical Projects</b></p>	<p>Basic practical skills,(a mixture of sweet and savoury items made). Colourful Acrylic 'Feelie'. Metal Testing Project. Paint Tin Lid Priser design and construction Project. CAD/CAM Mini Mirror Project. Simple electronics — iPod Amplifier. Wooden CD storage box. Key rack.</p>	<p>Food: mixture of sweet and savoury items made. Design and make a biscuit project. CAD/CAM Project – Mobile Phone Holder. Desk Tidy – to explore mass methods of production in Thermo plastic such as Vacuum Forming. Electronic Hand Steady Game. Jewellery. Basic skills involving hand stitching. Design and make a decorated book cover. Make a Fleece pull on hat.</p>	<p>Sweet &amp; Savoury sauces. Design a pastry snack. Focused tasks involving savoury items. CAD/CAM Novelty Clock Project. Use of Templates and jigs -Mirror or Photo-frame. CD/DVD/Video storage unit. Jewellery. Corporate I.D. &amp; packaging design project, that involves Further CAD/CAM work. Use of Vinyl Cutting Machine.</p>