

# Whitworth Community High School

## DT Department

Teacher in Charge/Faculty Leader: S.Sheldon	<h3>Year 8 Learning Overview</h3>
Organisation of the classes: Students receive 1 class of DT per week in Y8 and are set with other creative subjects at the end of Y7.	
<b>Key Concepts</b> Students continue to develop their knowledge and understanding of the Design Process through a series of projects that are aimed at increasing both their design and practical skills. Students are introduced in further detail to CAD/CAM software. Drawing techniques are taught and combined skills from art for shading etc. Design elements are introduced to enable pupils to independently create new products and evaluate their work. Students learn more about the function of ingredients, products and materials.	<b>What skills do I use in this subject?</b> <ul style="list-style-type: none"> <li>● Awareness of safety for self and others</li> <li>● Personal organisation and time management</li> <li>● Further skills with equipment used previously</li> <li>● Application of knowledge and understanding and continually applying knowledge gained</li> <li>● Use of ICT for designing and researching</li> <li>● Encouraged to work independently and as part of a group</li> <li>● Share new skills with others</li> <li>● Research, Problem analysis and evaluating</li> </ul>
<b>What will you be learning?</b> You will learn a range of practical and design skills: <ul style="list-style-type: none"> <li>● How to organise yourself to work safely and independently when preparing products.</li> <li>● Further detail in CAD/CAM processes including the laser cutter</li> <li>● Research into existing products and how we can use this to influence our designs</li> <li>● Sustainability in textiles and wood</li> <li>● Finishing and shaping</li> <li>● How to choose ingredients and materials for their physical and sensory properties so that your products are successful</li> <li>● How to evaluate work and make suggestions for improvements or modifications</li> </ul>	<b>How will you be learning?</b> <ul style="list-style-type: none"> <li>● Through whole class and small group discussion</li> <li>● Through research into relevant topics, for example, the materials that can be recycled</li> <li>● By expressing ideas through drawings and annotation.</li> <li>● By using a variety of ingredients, materials and equipment including, Tenon and Coping saws, the hob, oven and knives safely to produce successful products.</li> <li>● Using CAM machines and traditional tools</li> <li>● Through safe conduct in the workshops</li> <li>● By analysing existing products and using them to influence their own work</li> </ul>
<b>How will your learning be assessed?</b> Participation in group and class work is continually observed. Peer and self-assessment throughout projects. Individual practical tasks are given a level depending on the skill demonstrated and the quality of the outcome. Design work is assessed through drawing and annotation of design ideas and modelling.	<b>Home Learning</b> In Y8 for DT students receive 3 Home Learning booklets a year. These booklets will include exam style questions both design and theory focused.
<b>Equipment needed?</b> School required equipment is mandatory. It is also essential that students have a good set of coloured pencils. When participating in DT Food lessons students can bring their own apron if they wish. A selection of sealable containers and baking tins is useful and weighing scales for use at home.	<b>How can your parents support your learning?</b> Practicing and helping out at home with cooking so that you can create new, successful dishes. By encouraging you to prepare for the practical sessions independently. By acting as a target customer for your products and contributing to evaluations. By ensuring that you are thorough in completing written tasks. Encourage them to be thorough with their research and to be creative with their design solutions.
<b>SMSC Links – Focus on Aspirations</b> Students have opportunities to give their own personal reflections throughout DT at both key stages. Mutual respect is engendered through peer and self-assessment and students should be open to ideas that help them to adapt their ideas in light of misconceptions. We empower students to take criticism positively and to articulate their views in a respectful and sensitive way. Creating products using a variety of machinery and equipment creates an excitement and a sense of real achievement. Lessons include careers in DT and students are able to see the wealth of jobs included in DT careers as something to aspire too.	<b>What extra-curricular activities or enrichment opportunities are available?</b> Laser club and various interventions at lunch time and after school. DT club runs at various times of the year on a Monday night creating various projects.

