



Design & Technology Year 9 Curriculum overview

The below is intended to provide parents and pupils with a simple overview of Year 9 D&T. Should you have any additional questions please do not hesitate to contact Mr Williams. We strongly encourage parents to look through their child's books and talk with them about their studies.

Learning Focus	Assessments
Unit 1: Research and Specification	
<p><u>Learning enquiries:</u> 1). Do you know what the different safety signs mean, and their purposes? 2). Which tools are suitable for which task? 3). Can you build a client profile from the information gathered? 4). Can you compile facts and opinions on a chosen company? 5). Can you use research to influence your future design work? 6). Can you identify the needs of users and solve their problems?</p> <p><u>Key Skills:</u> Research, analysis, tool selection, colour coding, evaluation, problem solving.</p>	<p>Interim Assessment: Pupils will have one piece of research complete before it is marked and feedback is given. Some research tasks are collaborative.</p> <p>Final Assessment: This assessment will test for prior knowledge and knowledge learned as well as the ability to use key words. Including cultural effect on design, understanding of primary research and ergonomics.</p> <p>Level of which research and specification is completed to. Originality of ideas, home learning completion, comprehension of user needs, finally summation and interpretation of information.</p>
Unit 2: Idea Generation and Development	
<p><u>Learning enquiries:</u> 1). Can you follow your specification to create new and innovative ideas? 2). Can you pick a designer and analyse their work? 3). Can you identify an ergonomic product and improve one? 4). Can SCAMPER be used effectively to improve a design idea over time?</p> <p><u>Key Skills:</u> Rendering, analysis, evaluation, identifying pros and cons, and re-contextualising.</p>	<p>Interim Assessment: Pupils will have a set of complete initial ideas to be marked and feedback acted upon. Initial ideas are also peer assessed throughout.</p> <p>Final Assessment: This assessment will test for prior knowledge and knowledge learned as well as the ability to use key words. Including production methods drawing types and reasons for developing/prototyping.</p> <p>How well brief has been executed, level of annotation, level of creativity and flair, link between research and ideas. Integration of previous design work into development, accuracy of scale drawings.</p>
Unit 3: Manufacturing and Evaluation	
<p><u>Learning enquiries:</u> 1). How well can you document your own manufacturing steps? And show correct selection of tools and materials 2). Can pupils identify a production method based on a product? 3). How well can you plan out your manufacturing process using industrial processes? 4). Can you allocate your time appropriately? 5). How well can you evaluate your product against your clients wishes? 6). Can you identify which 'R' is best and worse? As well as their impact on the environment.</p>	<p>Interim Assessment: Pupil will have made a product made and assessed. Assessment of knowledge on tools used, past designers, 6Rs, CAD/CAM definition and the meaning of technical terminology.</p> <p>Final Assessment: T</p>



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Key Skills: Manufacturing, decision making, analysis, planning, evaluation.

How well tools have been selected, accuracy of cutting and marking, workshop competency, standard of finish and completion of manufacturing diary is assessed and feedback to students.

How well have students answered the spec, justification of answers, understanding of 6Rs, and importance of technology in society.