



Design & Technology Year 8 Curriculum overview

The below is intended to provide parents and pupils with a simple overview of Year 8 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). Can you select complementary colours and apply them to a mirrored drawing? 2). Can you sketch in 2 point perspective? 3). Can you recall workshop safety rules and create a cube representing the 6 most important? 4). Can you ask open ended and closed questions as part of a primary research task? Can you summarise the data? 5). Are students able to come up with a design brief based on their research?</p> <p><u>Key Skills:</u> Research, analysis, rendering, imagination, 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 on topics such as Polymers, research methods and design styles.</p> <p>Level of which research and specification is completed to. Quality of rendering, standard of health and safety cube and level of design movements task, finally the amount of ideas on the idea board.</p>
Unit 2: Idea Generation and Development	
<p><u>Learning enquiries:</u> 1). Can students use the research and design brief/spec to create relevant initial ideas for their clients? 2). Are students able to use what they have learned in the design process and take inspiration from prominent designers to make amendments to their designs? 3). Can students Identify offer solutions to environmental issues? 4). Can students recall rendering techniques and use them to follow a structured development method? 5). Can students turn a theoretical idea into a real prototype? 6). Are students able to recall isometric drawing skills and apply them to a new context?</p> <p><u>Key Skills:</u> Rendering, analysis, accuracy, 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 further knowledge of design movements, manufacturing techniques and part of the 6Rs.</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. Variation of drawing techniques used, avoiding design fixation and the uniqueness of their ideas in comparison to peers.</p>
Unit 3: Manufacturing and Evaluation	
<p><u>Learning enquiries:</u> 1). How well can students follow instructions to design their Clocks in 2D design? 2). Can students 'see' how their clocks will be made using 2D design? 3). Can students apply their research of the clock motor in a practical setting? 4). Can students</p>	<p>Interim Assessment: Pupil will have made a product and assessed it. Assessment of knowledge on CAD/CAM/CNC, tool</p>



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use their knowledge and information learned to describe the making process? **5)**. Can students evaluate their own work against a design brief and justify? **6)**. How much have students learned throughout the unit. **7)**. Can students improve on their work by acting upon feedback

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

selection, ability to evaluate their own product.

Final Assessment:

How well tools have been selected, how well product is assembled, precision of holes drilled, neatness of work and assembly of clock motor.

How well have students answered the spec, do they know about FASTCOM and CAD, can they give different filing techniques and name tools used.