



Design & Technology Year 7 Curriculum overview

The below is intended to provide parents and pupils with a simple overview of Year 7 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 measure in cm/mm? Can you draw in 3D? 2). Can you recall workshop safety rules and justify their importance? 3). Can you name various types of polymers and their uses/properties? 4). Are students able to carry out targeted research and summarise the results? 5). Can students create a specification based on research? 6). Can students successfully use a steel rule?</p> <p><u>Key Skills:</u> Research, analysis, evaluation, justification, sorting, summarising.</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 identifying tools, equipment, materials. Understanding of FASTCOM, identifying types of plastic and the 'changes' they can go through.</p> <p>Level of which research and specification is completed to. Level that safety characters completed too, understanding of polymers, summary of data and advantages/disadvantages of research types.</p>
Unit 2: Idea Generation and Development	
<p><u>Learning enquiries:</u> 1). Are students able to annotate and evaluate their own original ideas? 2). Can students re-contextualise the development process and apply it to their own designs? 3). Are students able to use what they have learned in the design process to make a design solution that matches a specification? 4). How can students apply knowledge learned about working with plastic and finishing techniques to create a design solution?</p> <p><u>Key Skills:</u> Rendering, annotation, development, 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 recapping H+S symbols, giving examples of thermosetting plastics, factors affecting FASTCOM.</p> <p>How well brief has been executed, level of annotation, level of rendering skills shown, thoroughness of development steps, justification of developed idea.</p>
Unit 3: Manufacturing and Evaluation	



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Learning enquiries: **1).** Are students able to annotate and evaluate their own original ideas? **2).** Can students improve on their manufacturing skills and match theoretical work to practical work? **3).** Are students able to switch from practical tasks to writing tasks to recall what they have done? **4).** How well can students follow instructions to bend their acrylic? **5).** Can students evaluate their badges effectively?

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

Interim Assessment: Pupil will have made a product made and assessed. Assessment of knowledge on

Final Assessment: Ability to understand techniques used, use of a jig, define QA and QC, unit conversion and ability to annotate.

How well tools have been selected, accuracy of sanding/filing/cutting. Level of independence shown during manufacturing process, tolerances worked within, standard of completion of evaluation against spec.