

DT Year 9 Curriculum overview

The below is intended to provide parents and pupils with a simple overview of Year 9 Design Technology. Should have any additional questions please do not hesitate to contact Miss Dickson.

Learning Focus	Assessments
Iterative design (c. 36 lessons)	
<ul style="list-style-type: none"> • <u>Learning focus:</u> <ol style="list-style-type: none"> 1. Workshop health and safety 2. Metals physical and working properties. 3. User centred design 4. Iterative design process 5. Research methods 6. Ergonomics and Anthropometrics 7. Work of others for inspiration 8. Research focused design specifications meeting a brief 9. Design development 10. Workshop tools, techniques, processes, equipment, and machinery 11. Marking out, modification and finishing of materials. 12. Components, fixtures, and fittings 13. Production of models/ prototypes to test ideas. 14. Isometric projection 15. Detailed working drawing 16. TechSoft 2D design (CAD) 17. Laser cutter manufacturing (CAM). <p><u>Key Skills:</u> Writing questionnaires, designing sustainably, creating and using mood-boards, drawing in isometric projection, model making to influence idea development, safe use of hand tools and fixed machinery, drawing in TechSoft 2D design (CAD) and using the laser cutter to manufacture prototypes (CAM).</p> <p><u>Knowledge revisited from Year 7 and 8:</u></p> <ol style="list-style-type: none"> 1. Health and safety 2. Brief and specification 3. Sustainability 4. Paper/boards 5. Polymers 6. Timbers 7. Sketching skills/ design principles 8. Workshop tools, techniques, processes, equipment, and machinery 9. CAD/CAM 10. Design development 11. Models 12. Evaluation 	<p>Interim Assessment: Silent starter recall will assess understanding every lesson.</p> <p>Final Assessment: This will test spelling, knowledge and understanding of the learning focuses.</p> <p>Homework: Forms quiz checking knowledge and understanding of the learning focuses.</p> <p>Whole class reading: During the project we will study relevant contextual texts. Allowing students to develop their awareness of the wider world.</p>