

DESIGN & TECHNOLOGY (RM)

YEAR 13

AUTUMN 1

<p>Theory Topic Manufacturing and project management. Studying manufacturing processes and project management, topics such as KANBAN, Kaizen, and Just in Time. Gantt charts and flow diagrams and critical path analysis.</p>	<p>Theory Topic - Legislation. Students need to understand how the trade description act, health and safety act, and consumer rights act effect the design industry, manufacturing and the sale of products.</p>	<p>September to October Experimenting with materials. Writing a technical specification once the final design is reached. Planning the project for manufacture.</p>	<p>Prior Learning Students may have done a Gantt chart in GCSE NEA and in Year 12, this is designed to push that into more detail. Students will only have seen the legislation topic if they have studied business studies.</p>
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AUTUMN 2

<p>Theory Topic Manufacturing and project management. Studying manufacturing processes and project management, topics such as KANBAN, Kaizen, and Just in Time. Gantt charts and flow diagrams and critical path analysis.</p>	<p>Theory Topic - Legislation. Students need to understand how the trade description act, health and safety act, and consumer rights act effect the design industry, manufacturing and the sale of products.</p>	<p>October to November Creating a cutting list and ordering materials in. Following the plan to start creating a scaled down or full size prototype.</p>	<p>November to December Completing the prototype.</p>	<p>Prior Learning Students now have the ability to experiment and develop parts of their prototype using knowledge from the workshop and what they've learnt in theory.</p>
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SPRING 1

<p>Theory Topic – Paper 1 Practice papers and Revision for Paper 1.</p>	<p>Theory Topic – Paper 2 Practice papers and Revision for Paper 2.</p>	<p>January- February NEA Testing and evaluating the prototype. Gaining feedback from primary users and stakeholders.</p>	<p>February- March NEA Ongoing evaluation to manage design decisions. Feasibility of the design solution. Risk assessments.</p>	<p>Prior Learning This will assess all prior learning.</p>
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SPRING 2

<p>Theory Topic – Paper 1 Practice papers and Revision for Paper 1.</p>	<p>Theory Topic – Paper 2 Practice papers and Revision for Paper 2.</p>	<p>February- March NEA Ongoing evaluation to manage design decisions. Feasibility of the design solution. Risk assessments.</p>	<p>March- April NEA Quality checking and assuring all work has been completed and is line with target and aspirational grades.</p>	<p>Prior Learning Students will use their knowledge of testing strategies to evaluate and understand how the prototype could be further refined and improved.</p>
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SUMMER 1

<p>Theory Topic – Paper 1 and 2 Practice papers and Revision</p>	<p>Revision of prior learning</p>	<p>Prior Learning Revision of all prior learning in preparation for the exams.</p>
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CAREERS LINKS

Fabrication, engineering, architecture and product design.
This leads on to degree level qualifications or apprenticeships in design, architecture, manufacturing, business and many more.

CHARACTER LINKS

Performance virtues of motivation, resilience and perseverance are fostered when designing and creating products. Intellectual virtues of critical thinking and reflection are harnessed when modifying and refining design ideas.

KEY ASSESSMENT DATES

Continual assessment of coursework is ongoing. Practice exam questions are fortnightly and formal practice papers during assessment weeks.