

Engineering Curriculum Guide

Year 10

What will my son learn?		
<p>Autumn term Unit 1: Introduction to engineering</p> <ul style="list-style-type: none"> • Know what engineering is • Understand the advantages and disadvantages of engineering on society • Understand the use of science, technology and maths in engineering 	<p>Spring Term Unit 3: Tools and equipment for engineering</p> <ul style="list-style-type: none"> • Be able to use common hand tools for an identified purpose • Be able to use common power/portable tools for an identified purpose • Be able to use common fixed equipment for an identified purpose • Be able to maintain a safe working environment 	<p>Summer Term Unit 2: Introduction to engineering drawing</p> <ul style="list-style-type: none"> • Know systems of measurement, measuring devices, scale and proportion in engineering drawing • Be able to use measurement and scale to produce 2D and 3D engineering drawing

How will my son be assessed?
<p>Units 1 and 3 are internally assessed through the completion of a series of coursework tasks. In order to complete a unit, submitted work will need to demonstrate achievement against a range of outcomes.</p> <p>Each coursework task enables the student to demonstrate their level of knowledge and understanding of a topic. Completed units are graded PASS, MERIT or DISTINCTION depending on how the student performs against a set of stated criteria.</p> <p>Coursework tasks are set throughout the term and for each a specified submission deadline is given.</p> <p>Students are given ONE opportunity to resubmit a task that is considered not to have met the required standard for specific criteria or to improve on their level of attainment.</p> <p>Unit 2 (Engineering drawing) is externally assessed by exam during Year 11.</p>

How can I support my son with Engineering?
<ul style="list-style-type: none"> • Pupils should be encouraged to take an active interest in engineering developments of all kinds through reading about the subject in newspapers and magazines, as well as relevant TV coverage. Visits to museums and exhibitions can also be of benefit. • Parents can also help by monitoring pupils planners, assisting with any coursework or questions pupils may have and communicating with the teacher if there are any problems.

