

## ENGINEERING SCIENCE

SUBJECT DESCRIPTION	<p>This course will provide you with an Introduction to Engineering Science.</p> <p><b>Engineering Science</b> is a practical course where you will investigate the role of engineers in industry, control systems including electrical and electronic circuits and programmable microcontrollers, and mechanical systems including mechanical and pneumatic components.</p> <p>Pupils will learn how to build circuits, as well as writing programs and simulating mechanical systems. Pupils will also be expected to use the knowledge gained to solve challenging problems which will include the use of mathematical formulae so <b>good numeracy skills are essential</b>.</p> <p><b>Entry Requirements:</b></p> <p>You will have gained skills in S1 and S2 to allow you to take this course. However, you must also have good Maths skills as there is a considerable amount of maths involved in Engineering, and you must also have good ICT skills. An ability to work safely is important too, as there are times when you will be working with equipment that can be dangerous if not used correctly.</p>
COURSE CONTENT	<ul style="list-style-type: none"> <li>• Pneumatics</li> <li>• Electronics and Programming</li> <li>• Mechanisms and Structures</li> <li>• The Branches of Engineering</li> </ul> <p><b>Assessment</b></p> <p>Work is assessed by end of unit assessments, and problem solving projects/tasks. These will be marked internally by your teacher.</p>
PROGRESSION & PATHWAYS	<p>This course allows you to go onto study Engineering Science at National 4 or 5 level</p> <p>Engineering Science is designed to give an overview of the main branches of engineering and is perfect for a range of possible careers. See the link below for further information:</p> <p><a href="https://www.planitplus.net/Schools/SubjectCareerList?mysubject=Engineering%20Science">https://www.planitplus.net/Schools/SubjectCareerList?mysubject=Engineering%20Science</a></p>