

Engineering Curriculum

	Term 1	Term 2	Term 3
Year 7	<u>Product design: Design specifications</u>	<u>Product design: ACCESSFM and product analysis.</u>	<u>Product design: Model making and skills building.</u>
Year 8	<u>Product design: Sustainable design.</u>	<u>Product design: Drawing skills and presenting design ideas.</u>	<u>Product design: Model making and skills building.</u>
Year 9	<u>The design cycle, process planning, design specifications, generating design and engineering drawing techniques.</u>	<u>Engineering drawings, design specifications, CAD, CAM, communicating design ideas.</u>	<u>New and emerging materials and technologies, prototyping materials, manufacturing techniques.</u>
Year 10	<u>Coursework Unit: R039, Communicating Designs</u>	<u>Manufacturing techniques, planning for manufacture, develop skills and techniques with engineering tools and equipment.</u>	<u>Manufacturing techniques, planning for manufacture, develop skills and techniques with engineering tools and equipment., CAD/CAM, prototyping and rapid prototyping.</u>
Year 11	<u>Coursework Unit: R108 - 3D design realisation</u>	<u>Coursework Unit: R107 - Developing and Presenting Engineering Designs</u>	<u>Preparing for exam and coursework submission.</u>

This curriculum map shows when topics are first taught. Every topic is revisited throughout the curriculum