Engineering - Key Stage 4 Topics

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	Working Practices in Engineering	Working Practices in Engineering	Using and Interpreting Information	Using and Interpreting Information	Electrical and Mechanical Science	Electrical and Mechanical Science
Year 11	Mathematics for Engineers	Mathematics for Engineers	Using CAD Techniques	Using CAD Techniques	All review	All review

Engineering - Key Stage 5 Topics

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 12	Properties of Materials, Materials (a) (b)AO2 Identify the Activities of Engineers and their Technologies (a)AO1 Engineering Drawing Practice Research Predetermined Project Area	Materials Processing Joining Materials (c) (d) AO2 Identify Legislation and Health and Safety Constraints (b) (c)AO2 /AO3 Technical Specifications Production Plans Design Process (Ideas, Drawings, Planning)	(e) (f)AO3 Produce "Role of the Engineer Report" (d) AO3 Production of Planned Item Construction plus and Development	Revision Alteration and Amendment of Report (e)AO3 Completion of Evaluation Presentation of Oral Evaluation to Peers	Revision	Move to A2
Year 13	Look at Appropriate Area of Research (a) AO1/AO2 Research and Specification Ideas	(a) (b) AO1/AO2 Structural Systems Electro Mechanical Systems (a) (b) AO1/AO2 Legislation and Standards Documentation in Engineering (b) (c) (d) AO1/AO2/AO3 Ideas and Development Planning	(c) AO3 Power and Lighting Electronics, Instruments and Control (c) (d) AO2/AO3 Environmental Impacts Technology in Engineering (e) AO3 Production	Study 10 Hour Exam Tensile Testing at University (E) (f) Produce Report (f) AO3 Testing	Undertake 10 Hour Examination (f) AO3/QWC Evaluation	