

Engineering Curriculum Map

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10	Topic	Engineering disciplines, Safety laws, units, engineering mathematics Students will start to learn what the different engineering disciplines do and work on the units and mathematics within engineering	Engineering drawings and practical tasks Students will learn some engineering drawings and complete a short practical project	Engineering materials, Practical engineering techniques, Students learn about the properties of various materials and the practical techniques needed to complete tasks	Engineering materials, further drawing skills and CAD design Students continue to work on drawing skills. Students learn how to design using CAD software	Mock project Students will design and build a desk lamp prototype stand using skills learnt in lessons	Revision for Year 10 pre mock assessments and completion of mock NEA
	Assessment	Assessment based on past exam questions.	Project based assessment of design and build	Assessment based on past exam questions. Assessment of drawing skills	Assessment based on past exam questions. Assessment of drawing skills	Project based assessment of design and build	Pre Mock Assessment Project based assessment of design and build
	PREP	Lesson by lesson prep, based on content in the exams	Drawing and design prep.	Lesson by lesson prep, based on content in the exams	Lesson by lesson prep, based on content in the exams	Drawing and design prep.	Lesson by lesson prep, based on content in the exams
Year 11	Topic	Health and safety, theory of engineering techniques and CAD Students learn the last engineering processes, the health and safety and CAD design.	Production planning, and engineering techniques then start Internally marked assessment Students work on production planning and engineering techniques then start NEA.	Internally marked assessment Full internally marked assessment project	Internally marked assessment to complete then revision for exams Full internally marked assessment project	General exam revision	

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	Assessment	Assessment based on past exam questions.	Project based assessment of design and build	Project based assessment of design and build	Project based assessment of design and build and Assessment based on past exam questions.		
	PREP	Lesson by lesson prep, based on content in the exams	Drawing and design prep.	Drawing and design prep.	Lesson by lesson prep, based on content in the exams		