

## Year 10 Curriculum Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>EXAM UNIT</b>	<b>R038 Principles of engineering design</b>  <i>TA1: Designing processes</i> 1.1 The stages involved in design strategies 1.2 Stages of the iterative design process	<b>R038 Principles of engineering design</b>  <i>TA1: Designing processes</i> 1.2 Stages of the iterative design process  <i>TA3: Communicating design outcomes</i> 3.1 Types of drawing used in engineering	<b>R038 Principles of engineering design</b>  <i>TA3: Communicating design outcomes</i> 3.2 Working drawings 3.3 Using CAD drawing software  <i>TA2: Designing requirements</i> 2.3 Influences on engineering product design	<b>R038 Principles of engineering design</b>  <i>TA2: Designing requirements</i> 2.3 Influences on engineering product design  <i>TA1: Designing processes</i> 1.2.2 Make and evaluate	<b>R038 Principles of engineering design</b>  <i>TA4: Evaluating design ideas</i> 4.2 Modelling methods	<b>R038 Principles of engineering design</b>  <i>TA1: Designing processes</i> 1.2.2 Make and evaluate  <i>TA4: Evaluating design ideas</i> 4.2 Modelling methods
<b>NEA UNITS</b>		<b>R039 Communicating designs</b> <i>TA1: Manual production of freehand sketches</i>  1.1 Produce a freehand sketch of a design idea	<b>R039 Communicating designs</b> <i>TA1: Manual production of freehand sketches</i> 1.2 Produce an isometric sketch for a design proposal  <i>TA2: Manual production of engineered drawings</i> 2.1 Produce a third angle orthographic projection drawing 2.2 Produce an assembly drawing for a design proposal	<b>R039 Communicating designs</b> <i>TA3: Use of computer aided design (CAD)</i> 3.1.1 Produce a 3D CAD 3.1.2 Produce 3D CAD assemblies of components  <b>R039 NEA ASSESSMENT</b>	<b>R039 Communicating designs</b> <i>TA3: Use of computer aided design (CAD)</i> 3.1.2 Produce 3D CAD assemblies of components  <b>R039 NEA ASSESSMENT</b> <b>R039 SUBMISSION</b>  <b>R040 Design, evaluation and modelling</b> <i>TA1: Product evaluation</i> 1.1 Carry out product analysis - ACCESS FM 1.2 Compare products TA2: Carry out product disassembly	<b>R040 Design, evaluation and modelling</b> <i>TA2.1: Methods of modelling</i> 2.1.1 Virtual CAD 3D 2.1.2 Physical modelling