

Curriculum Map Year 1 | DESIGN AND TECHNOLOGY

Following AQA GCSE Design and Technology Specification (a full copy of the specification can be found [here](#))

Topic Name	Term	Skills developed with link to NC Subject content	Reflection on previous link in the curriculum	Progress to future link in the curriculum
Non Exam Assessment	<i>Autumn HT1</i>	NEA 1 Identifying and investigating design possibilities 2 Producing a design brief and specification Complete the first two sections from summer holiday work 3 Generating design ideas Developing ideas from sections 1 and 2.	Year 10 HT1, HT2 Key Stage 3 projects Year 10 HT1, HT2, HT4 Year 10 HT2, HT3, HT6	Year 11 Spring 2 revision Year 11 Spring 2 revision Key Stage 5 NEA
Revision		Core technical principles <i>1.2</i> Energy generation and storage <i>1.3</i> Modern, smart, composite materials and technical textiles <i>1.4</i> The use of electronics to control products. Inputs->Process->Outputs and control programmes for microprocessors <i>1.5</i> Use of levers, cams, gears, pulleys and linkages to create movement		
Non Exam Assessment	<i>Autumn HT2</i>	NEA 3 Generating design ideas Complete generation of ideas and feedback assessed. Drawing techniques. 4 <i>Developing design ideas</i> 5 <i>Realising design ideas</i> Develop a design idea using modelling, testing and sketching processes to produce a final solution/outcome. Manufacturing techniques analysed and tested leading to production of manufacturing plan and start to manufacture final outcome.	Y10 HT1, HT2 Key Stage 3 projects Year 10 Autumn HT1, HT2, HT4, HT5 Year 10 Autumn HT1 for manufacturing plan from first project	Year 11 revision Key Stage 5 NEA Year 11 revision Key Stage 5 NEA
Revision		Core technical principles <i>1.1</i> New and emerging technologies Specialist technical principles <i>2.1-2.19</i> Woods, paper and plastic focuses	Year 10 HT5 Year 10 HT1, HT3, HT4, HT5	Key Stage 5 study
Non Exam Assessment	<i>Spring HT1</i>	NEA 5 <i>Realising design ideas</i> Complete manufacture of outcome and folder to represent the process.	Year 10 HT1, HT2 Key Stage 3 projects	Key Stage 5 NEA
Revision		Design and making principles <i>3.3</i> The work of others <i>3.4</i> Design strategies	Year 10 HT1, HT2 Y8 Design and modelling topic	Key Stage 5 study

Non Exam Assessment	<i>Spring HT2</i>	<p>NEA</p> <p>5 Analysing and evaluating</p> <p>Test and evaluate the final product with user, against the design brief and specification. Look at developments and improvements and consider changes for industrial manufacture.</p>		Key Stage 5 NEA
Revision		<p>Design and making principles</p> <p>3.7 Selection of materials and components</p> <p>3.8 Tolerances</p> <p>3.9 Material management</p> <p>3.10 Specialist tools and equipment</p> <p>3.11 Specialist techniques and processes</p>	Year 10 HT2, HT5	Key Stage 5 study
Revision	<i>Summer HT1</i>	Use of range of revision resources (practice questions, walking-talking mocks, timed questions) to support revision of all areas of course with main focus on Section 2 and Section 3.	All parts of course	Key Stage 5 study