

# Curriculum Map Year 13 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
Technical principles	Autumn HT1	<u>1.1 Materials and their applications</u> <u>1.2 Performance characteristics of materials</u> <u>1.3 Enhancement of materials</u>	Y7, 10, 11 and 12	
Designing and making principles	Autumn HT1	<u>2.1 Design methods and processes</u> <u>2.2 Design influences</u>	Y7, 10, 11 and 12	
Non Exam Assessment	Autumn HT1	<u>NEA</u> 1. Identifying and investigating design possibilities <ul style="list-style-type: none"> <li>▪ Research techniques and investigations</li> <li>▪ Development of initial concepts/ideas</li> </ul> 2. Producing a design brief and specification <ul style="list-style-type: none"> <li>▪ Clarify project and write clear brief and specification to lead project forward</li> </ul> 3. Development of design proposal <ul style="list-style-type: none"> <li>▪ Using drawing techniques, CAD, prototype modelling and feedback</li> <li>▪ Final design – working drawing</li> <li>▪ Plan for manufacture, cutting lists, CAD files</li> </ul>	Year 9, 10, 11 and 12  Year 9, 10, 11 and 12  Year 7, 8, 9, 10, 11 and 12	
Technical principles	Autumn HT2	<u>1.4 Forming, redistribution and addition processes</u> <u>1.5 The use of finishes</u>	Year 7, 10, 11 and 12	
Designing and making principles	Autumn HT2	<u>2.3 How technology and cultural changes can impact on the work of designers</u> <u>2.3.4 Product life cycle</u>	Year 8, 9, 10 and 11	
Non Exam Assessment	Autumn HT2	<u>NEA</u> 3. Development of design proposal <ul style="list-style-type: none"> <li>▪ Using drawing techniques, CAD, prototype modelling and feedback</li> <li>▪ Final design – working drawing</li> <li>▪ Plan for manufacture, cutting lists, CAD files</li> </ul> 4. Development of design prototype <ul style="list-style-type: none"> <li>▪ Manufacturer of final outcome</li> <li>▪ Recording of manufacture skills, safety, QA/QC, developments and amendments to plans</li> </ul>	Year 7, 8, 9, 10, 11 and 12  Year 7, 8, 9, 10, 11 and 12	
Technical principles	Spring HT1	<u>1.6 Modern industrial and commercial practice</u> <u>1.7 Digital design and manufacture</u> <u>1.8 The requirements for product</u>	Year 10, 11 and 12	
Designing and making principles	Spring HT1	<u>2.5 Critical analysis and evaluation</u> <u>2.7 Accuracy in design and manufacture</u> <u>2.8 Responsible design</u>		
Non Exam Assessment	Spring HT1	<u>NEA</u> 4. Development of design prototype <ul style="list-style-type: none"> <li>▪ Manufacturer of final outcome</li> <li>▪ Recording of manufacture skills, safety, QA/QC, developments and amendments to plans</li> </ul> 5. Analysing and evaluating <ul style="list-style-type: none"> <li>▪ Testing and evaluation with third party/client</li> <li>▪ Future developments</li> </ul>	Year 7, 8, 9, 10, 11 and 12  Year 9, 10, 11 and 12	

<b>Technical principles</b>	Spring HT2	<u>1.9 Health and safety</u> <u>1.10 Protecting designs and intellectual property</u> <u>1.11 Design for manufacturing, maintenance, repair and disposal</u> <u>1.12 Feasibility studies</u> <u>1.13 Enterprise and marketing in the development of products</u>	Year 9, 10 and 11	
<b>Designing and making principles</b>	Spring HT2	<u>2.9 Design for manufacture and project management</u>	Year 9, 10, 11 and 12	
<b>Non Exam Assessment</b>	Spring HT2	<u>NEA</u> Review of whole project	Year 7, 8, 9, 10, 11 and 12	
<b>Technical principles</b>	Summer HT1	<ul style="list-style-type: none"> <li>• Revision of all areas</li> <li>• Range of assessment tools to work through sections of course</li> </ul>	Year 7, 8, 9, 10, 11 and 12	
<b>Designing and making principles</b>	Summer HT1	<ul style="list-style-type: none"> <li>• Revision of all areas</li> <li>• Range of assessment tools to work through sections of course</li> </ul>	Year 7, 8, 9, 10, 11 and 12	
<b>Non Exam Assessment</b>	Summer HT1	<ul style="list-style-type: none"> <li>• Completed and assessed</li> </ul>		
<b>Technical principles</b>	Summer HT2			
<b>Designing and making principles</b>	Summer HT2			
<b>Non Exam Assessment</b>	Summer HT2			