

# AQA GCSE

## 8552 (9-1) Specification map

### 3.1 Core technical principles

		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5A	Unit 5B	Unit 5C	Unit 5D	Unit 5E	Unit 5F	Unit 6	Unit 7
<b>New and emerging technologies</b>													
3.1.1	New and emerging technologies	✓											
<b>Energy, materials, systems and devices</b>													
3.1.2	Energy storage and generation		✓										
3.1.3	Developments in new materials		✓										
3.1.4	Systems approach to designing		✓										
3.1.5	Mechanical devices		✓										
<b>Materials and their working properties</b>													
3.1.6	Materials and their working properties			✓									

### 3.2 Specialist technical principles

		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5A	Unit 5B	Unit 5C	Unit 5D	Unit 5E	Unit 5F	Unit 6	Unit 7	
<b>Common specialist technical principles</b>														
3.2.2	Forces and stresses				✓									
3.2.3	Ecological and social footprint				✓									
3.2.7	Scales of production				✓									
<b>Specialist material areas</b>														
3.2.1	Selection of materials or components					<b>Materials covered in Units 5A-F</b> ✓ Papers and boards ✓ Timber based materials ✓ Metal based materials ✓ Polymers ✓ Textile based materials ✓ Electronic and mechanical systems								
3.2.4	Sources and origins													
3.2.5	Using and working with materials													
3.2.6	Stock forms, types and sizes													
3.2.8	Specialist techniques and processes													
3.2.9	Surface treatments and finishes													

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### 3.3 Designing and making principles

		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5A	Unit 5B	Unit 5C	Unit 5D	Unit 5E	Unit 5F	Unit 6	Unit 7
<b>Designing principles</b>													
3.3.1	Investigation, primary and secondary data											✓	
3.3.2	Environmental, social and economic challenge	✓			✓							✓	
3.3.3	The work of others											✓	
3.3.4	Design strategies											✓	
3.3.5	Communication of design ideas											✓	
3.3.6	Prototype development											✓	
<b>Making principles</b>													
3.3.7	Selection of materials and components												✓
3.3.8	Tolerances												✓
3.3.9	Material management												✓
3.3.10	Specialist tools and equipment												✓
3.3.11	Specialist techniques and processes												✓