

# Edexcel GCSE

## 1DT0 (9-1) Specification map

### Core content

#### New and emerging technologies

		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6-1	Unit 6-2	Unit 6-3	Unit 6-4	Unit 6-5	Unit 6-6
1.1	Impact of new and emerging technologies	✓										

#### Informing design decisions

1.2	Informing design decisions		✓									
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#### Energy, materials, devices and systems

1.3	How energy is generated and stored			✓								
1.4	Modern and smart materials			✓								
1.5	The functions of mechanical devices			✓								
1.6	Electronic systems			✓								
1.7	The use of programmable components			✓								

#### Material types, properties and structures

1.8	Ferrous and non-ferrous metals				✓							
1.9	Papers and boards				✓							
1.10	Polymers				✓							
1.11	Textiles				✓							
1.12	Natural and manufactured timbers				✓							
1.13	Contextual practice				✓							

#### Designing principles

1.14	Investigate social and economic challenges					✓						
1.15	Investigate the work of others					✓						
1.16	Avoiding design fixation					✓						
1.17	Developing design ideas					✓						

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### Specialist material categories

		Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6-1	Unit 6-2	Unit 6-3	Unit 6-4	Unit 6-5	Unit 6-6
2.1	Design contexts						<b>Materials covered in Units 6-1 – 6-6:</b> 6-1 Timbers 6-2 Metals 6-3 Papers and boards 6-4 Polymers 6-5 Systems 6-6 Textiles					
2.2	Sources, origins and properties											
2.3	Influencing selection											
2.4	The impact of forces and stresses											
2.5	Stock forms, types and sizes											
2.6	Manufacturing processes											
2.7	Specialist tools, equipment and processes											
2.8	Surface treatments and finishes											