



YR 10 DESIGN & TECHNOLOGY

Revision guidance

Circulation Year 10 DT GCSE students only

Title Year 10- GCSE Revision guidance

Purpose To provide revision information for Year Design and Technology Exam

Year 9 DT Revision List

1. Materials and Properties

1.1 Textile materials: natural, synthetic and blended fibres.

Link: <https://www.bbc.co.uk/bitesize/guides/z7v797h/revision/1>

1.2 Modern and Smart materials: materials that react to their environment like thermochromic pigments.

Link: <https://www.bbc.co.uk/bitesize/guides/z4p4rj6/revision/1>

1.3 Manufacturing and manmade boards: MDF, plywood and chipboard properties.

Link: <https://www.bbc.co.uk/bitesize/guides/zkmv34j/revision/3>

1.4 Mechanical and physical properties: strength, hardness, toughness, and malleability.

Link: <https://www.bbc.co.uk/bitesize/guides/z7426yc/revision/1>

2. Motion and Energy

2.1 Motion types: linear, rotary, oscillating, and reciprocating motion.

Link: <https://www.bbc.co.uk/bitesize/guides/zf6m8xs/revision/1>

2.2 Fossil fuels and energy: renewable vs non-renewable sources.

Link: <https://www.bbc.co.uk/bitesize/guides/z6v8jty/revision/5>

3. Manufacturing Processes

3.1 Industrial processes: injection moulding, casting, and lathe turning (wood and metal).

Link: <https://www.bbc.co.uk/bitesize/guides/zdf86v4/revision/1>

3.2 Printing and electronics: offset lithography, weaving, and flow soldering.

Link: <https://www.bbc.co.uk/bitesize/guides/znm9jvh/revision/1>

3.3 Quality control and quality assurance: testing and checking products during production.

Link: <https://www.bbc.co.uk/bitesize/guides/znm9jvh/revision/4>

3.4 Finishes and surface treatments: paint, varnish, and plating for protection and looks.

Link: <https://www.bbc.co.uk/bitesize/guides/zb7nb9q/revision/1>

4. Design and Communication

4.1 Function and aesthetics: how a product works versus how it looks.

Link: <https://www.bbc.co.uk/bitesize/guides/z67nb9q/revision/1>

4.2 ACCESS FM: evaluating user needs and wants (Aesthetics, Cost, Customer, Environment, Size, Safety, Function, Material).

Link: <https://www.bbc.co.uk/bitesize/guides/z67nb9q/revision/2>



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4.3 Environmental impact and Fairtrade: sustainability and ethical sourcing.

Link: <https://www.bbc.co.uk/bitesize/guides/z6p82hv/revision/5>

4.4 Third angle orthographic drawing: plan, front, and side views.

Link: <https://www.bbc.co.uk/bitesize/guides/z6p82hv/revision/3>

4.5 Brand awareness: logos, marketing, and corporate identity.

Link: <https://www.bbc.co.uk/bitesize/guides/zjt48mn/revision/5>

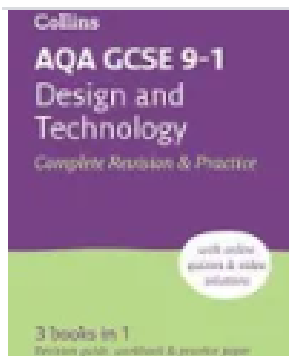
4.6 Components and written techniques: using annotations and symbols to explain designs.

Link: <https://www.bbc.co.uk/bitesize/guides/z4rb97h/revision/5>

5. Mathematics in DT

5.1 Math skills: percentages, tables, volume, and ratios.

Link: <https://www.bbc.co.uk/bitesize/guides/z6v8jty/revision/1>



Use the DT textbook and links above on each section.