

Topic Lists for Revision

Subject: Design & Technology 2023
Topic or component: Written exam
<u>Core Principles</u>
New and Emerging Technologies
☐ Industry and Enterprise
☐ Sustainability and the environment
☐ People, culture, and society
Production techniques and systems
☐ Informing design decisions
Energy, materials, systems, and devices
☐ Energy generation
☐ Energy storage
☐ Modern materials
☐ Smart materials☐ Composite and technical textiles
☐ Systems approach to designing.
☐ Electronic systems processing
☐ Mechanical devices
Materials and their working properties
☐ Papers and boards
☐ Natural and manufactured timbers
☐ Metals and alloys
☐ Polymers
☐ Textiles
Specialist technical principles
Common principles
☐ Forces and stresses on materials and objects
☐ Improving functionality
☐ Ecological and social footprint
☐ The six R's
☐ Scales of production
Paper and boards
☐ Sources, origins, and properties
☐ Working with papers and boards
☐ Stock forms, types & sizes
Commercial manufacturing, surface treatments and finishes
Timber based materials
☐ Sources, origins, and properties

☐ Working with timber based materials
☐ Stock forms, types & sizes
☐ Commercial manufacturing, surface treatments and finishes
Designing and making principles
Designing principles
☐ Investigation, primary and secondary data
☐ Interpreting & displaying data
☐ Mathematics
☐ Ergonomics & Anthropometrics
☐ Product analysis
☐ The work of others
☐ Design strategies
□ Communication of design ideas and prototype development
☐ Social, moral & environmental impacts
Making principles
☐ Selection of materials and components
☐ Tolerances and allowances
☐ Material management and marking out
☐ Specialist tools, equipment, techniques and processes
☐ Surface treatment and finishes

Strategies and Resources for Revision:

Bitesize

https://www.bbc.co.uk/bitesize/examspecs/zby2bdm

Revision guides

https://www.amazon.co.uk/GCSE-Design-Technology-Pocket-Posters/dp/B07J5LLGXQ

https://www.amazon.co.uk/Grade-Design-Technology-Revision-Guide/dp/1782947523

youtube

https://www.youtube.com/playlist?list=PLFrGcy2dv8TuxsqQJezvJjEla9GxSLK6K

revision site

https://studyrocket.co.uk/revision/gcse-design-and-technology-aqa

past papers

https://revisionworld.com/gcse-revision/design-technology/gcse-design-and-technology-past-papers-0/aqa-gcse-design-and-technology-past-papers