

Subject: Design and Technology GCSE – Mock Exam December 2023	
Exam Board: AQA	
Mock paper: 2 hours 50% of overall grade	
<p>Content:</p> <p>What's assessed</p> <ul style="list-style-type: none"> • Core technical principles • Specialist technical principles • Designing and making principles <p>In addition:</p> <ul style="list-style-type: none"> • at least 15% of the exam will assess math's <p>How it's assessed</p> <ul style="list-style-type: none"> • Written exam: 2 hours • 100 marks • 50% of GCSE Questions <p>Section A – Core technical principles (20 marks) A mixture of multiple choice and short answer questions assessing a breadth of technical knowledge and understanding.</p> <p>Section B – Specialist technical principles (30 marks) Several short answer questions (2–5 marks) and one extended response to assess a more in-depth knowledge of technical principles.</p> <p>Section C – Designing and making principles (50 marks) A mixture of short answer and extended response questions</p> <p>Outline content:</p> <p><u>Section A</u></p> <p>Conductive textiles</p> <p>Micro encapsulation materials</p> <p>Properties of materials</p> <p>Types of paper and board</p> <p>Systems</p> <p>Metals</p> <p>Types of manufactured boards</p> <p>Modern materials</p> <p>Renewable energy</p> <p>Types of plastics used in packaging</p> <p>Types of motion</p> <p>Levers and linkages</p> <p><u>Section B</u></p> <p>Manufacturing processes</p> <p>Tolerances</p> <p>Forces</p> <p>Improving properties of materials</p> <p>Templates</p> <p>Carbon footprint</p> <p>Materials and their stock forms</p> <p>Finishes for materials</p> <p><u>Section C</u></p> <p>Design features of products</p>	

Packaging
Product function
Deforestation
Ergonomics and anthropometrics
Deforming and reforming process
Isometric drawing
Exploded views
CAD/CAM
Datum point
Evaluating

Maths questions – you must know how to calculate the;
Area of a rectangle
Multiplication to find out total costs of products
Percentages
Calculating Angles
Volume

Useful revision resources:

List websites, links to past papers, books etc here
GCSE pod
www.technologystudent.com

Homework tasks including multiple choice questions practice.

Revision guides

CGP GCSE AQA Design and Technology -The Revision Guide (all students have one of these books at home).

Revision Tips

Section A

Please make sure you read the multiple-choice questions fully before answering.
Answer by shading in the lozenge.

Section B

Please make sure you answer your questions in full no one word answers lots of detail.

Section C

Practice your drawing techniques.
Use the Maths revision guide questions to help with the Maths questions.