

Subject: Design and Technology GCSE – Mock Exam December 2022

Exam Board: AQA

Mock paper: 2 hours 50% of overall grade

Content:

What's assessed

- Core technical principles
- Specialist technical principles
- Designing and making principles

In addition:

- at least 15% of the exam will assess maths

How it's assessed

- Written exam: 2 hours • 100 marks • 50% of GCSE Questions

Section A – Core technical principles (20 marks) A mixture of multiple choice and short answer questions assessing a breadth of technical knowledge and understanding.

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.

Section C – Designing and making principles (50 marks) A mixture of short answer and extended response questions

Outline content:

Section A

Conductive textiles

Micro encapsulation materials

Properties of materials

Types of paper and board

Systems

Metals

Types of manufactured boards

Modern materials

Renewable energy

Types of plastics used in packaging

Types of motion

Levers and linkages

Section B

Manufacturing processes

Tolerances

Forces

Improving properties of materials

Templates

Carbon footprint

Materials and their stock forms

Finishes for materials

Section C

Design features of products

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.