



DESIGN TECHNOLOGY



GCSE - How it's assessed	
Written exam	NEA
100 marks	100 marks
50% of GCSE	50% of GCSE

Quantities of materials and sizes
Maths

Environmental, social & economic challenge
Geography & Food

Cross curricular links

Specialist techniques & processes

Scales of production

Stock forms, types & sizes

Working and Physical materials properties

Materials categories

Prototype developments

Impact on society

Developments in new materials

Third party feedback used to develop & evaluate

Can use the work of other designers
Art

Show creativity & innovation in ideas

Modelling to test & develop ideas

Victoria & Albert Museum Project YEAR 9

Dye Sublimation Project

Consider form & function

Ongoing research

Iterative design

Knowledge & understanding of materials

Test outcome, record findings

Hardwoods & softwoods

Name types of timber & their properties

Use 2D & 3D drawings
Art

Quality control

Link specification to research

Primary & secondary research
Computing

Analyse research

Mobile Phone Holder YEAR 8

Letter Rack

CAM – Vinyl cutter

Evaluation using specification

Natural & manufactured timbers

Knowledge & understanding of materials: **redwood, MDF**

Use colour and textures
Art

Sustainability
Science & Geography

Vacuum forming

Describe thermoforming and thermosetting
Science

Suggest improvements

Can write a design specification

Electronic component & soldering
Science

Name polymers & their properties
Science

Carry out and use opinion of others when evaluating

Health & Safety

YEAR 7

Note Holder

Jitterbug

Carry out and use research relevant to my project

Can identify my target user

Can produce more than one idea that shows creativity

Can use colour on ideas
Art

Knowledge of understanding of materials: **acrylic, vinyl, foam-ex, neoprene**

CAM – laser cutting



PRIMARY

Exploded views

Name & identify equipment

Sources & origins
Science

Calculate areas and volumes
Maths

Aesthetics and Ergonomics

Hegna saw

Mechanical devices
Science

Justified brief & specification

New & emerging technologies

Research into materials & their properties: **birch, plywood**

Dye sublimation

Surface treatments

Can cut, shape & form to a tolerance

Energy generation & storage
Science & Geography

Knowledge & understanding of materials: **Smart and modern**

CAD – 2D Design

CAD –Photoshop and 2D Design
Art & Computing

Manufacturing specification

Scale and Orthographic drawing
Maths

Forces & stresses
Science

Ecological & social footprint
Science & Food

Sustainability
Science & Geography

Analysing the contextual challenge

Systems approach to designing
Science

The work of others

YEAR 11 NEA

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