

your DT journey.

FINAL GCSE **EXAM**

Materials: What materials will be appropriate for your product? What materials are sustainable?



Testing / Modelling:

EXAM

REVISION

Use various testing and modelling methods to develop your product

Use a wide range of tools and processes to produce your final product. You decide! 1000



Design: Reference key design

movements top to develop a stylish functional product.

Design:

Using removal

techniques to

develop an organic shaped

box based on

nature &

biomimicry

Materials / Make:

NEA

COURSEWORK

Use materials you have not combined before such as concrete, acrylic and timber to develop a unique stylized product.



GCSE NEA CONTEXTS

What is the design context? What research can you carry out to gather ideas?.

What ideas do you have

already? Can

you visualize

them?

Investigate the

design

possibilities:

WIGGLES WOODEN TOY

Design:

Designing for children.

How do we make a

product fun, educational

and safe?

YEAR

Make:

work of famous Use a wide range architecture or product of skills, materials design as inspiration and processes to develop your

Design:

Focus your idea on the

Develop your design through iterative product.

LIGHT PROJECT: Designer Box Make:

testing & evaluating

DESIGNER

LIGHTING

processes and modelling, before making a final

Addition processes & wood joints. Using skills to develop high quality craftsmanship products.

Make:

LIGHT PROJECT:

Swing Box

Design:

Practicing Isometric Projection and rendering skills. Orthographic projection.

Materials: Working with hardwoods and

specialist timbers. Working properties and recognizing materials.

After choosing

Materials: Timbers - hard woods

and softwoods, why do we use them?

Design: Isometric projection. CAD deve

Cams / motions & movements: What do cams

unique product.



Evaluate:

Does your product

work? How can you

fix problems?

Testing / Modelling: Will my product work? What can I do to improve it?

Can you make an accurate product using machines and tools independently?

Make:



Evaluate:

What skills have you developed? Test your product and consider how you would improve it.

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Evaluate:

How has CAD

/ CAM

helped you

make a

product?

PROJECT: Lift lid Box

LIGHT

options in year 8. focus vour studies in GCSE DT in years 9 11, through exciting, real life projects. Deepen your understanding of DT in the world around us whilst developing products that help various needs and

> Work in more depth on projects, honing your practical skills,

improving your

resilience &

problem

solving whilst

developing

independence

in the

workshop

MECHANICAL TOY PROJECT

Evaluate: At each stage of making, how

can you improve your product? Would you change any thing?



Develop independence in CAD using 2D design software to make complex design ideas.

Materials:

Working with acrylics,

cutting and finishing

techniques

CAD

CLOCK

PROJECT

Design:

Designing for a user and client. What is an isometric projection? Develop design ideas using CAD.



Design: CAD

What is computer aided

design? Learn to use

the basics of 2D

software to design

products

Materials:

Working with acrylics and circuitry to develop a working night light.

Make:

What is CAM? Use the

laser cutter to produce

your final product!

NIGHT LIGHT **PROJECT**



Make: Thermo - Forming

do? How do they work?

Shaping manufactured boards Basic circuitry and soldering

Designing with restrictions Orthographic Projection & Rendering

Materials: Polymers Classification

What is a polymer? What is a circuit?



PROJECT

D&T Learning Journey



What makes a good picture frame? How can you improve your skills?





machines

Wood joints Use of hand tools and



Designing for users Rendering CAD design development





PICTURE **FRAME** JIGSAW



the workshop:

Introduction to



Experience a wide range of fun and exciting projects that teach vou valuable skills in the workshop, understanding different how they work