

Design and Technology – 3D design Pupils' Journey 2023-2024



Year 11

Sustained project – final piece and presentation

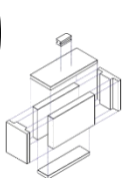
Mock exam
Final piece for sustained project

Exam paper arrives - January

Exam preparation

Research, experimentation, design and planning

Exam



Use your experimentation to influence every feature of your final piece.



Experiment with a wide range of materials, processes and techniques – be creative.



Developed experiments and developed sketches

Design ideas

Primary research and experimentation

Designer experimentation
CAD/CAM Designer research and analysis

Choice of sustained project

Shade and Tone – drawing and development project



Analyse in full sentences. Use key words wherever possible.



The importance of observational drawing



Tensegrity tables – modelling, design movements and manufacturing accurately.



Year 10

New equipment and machinery training

Production of final piece

Modelling skills – Cleas Oldenberg

Soft materials experimentation

Sets and props project

Materials preparation

Final design and materials planning

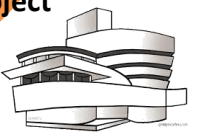
Confidently solving technical problems before they happen.



Ensuring accuracy with all equipment



Demonstrating the importance of using the work of others as an influence



Idea generation and selection

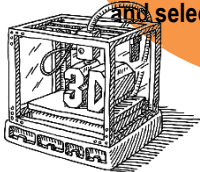
Analysis and presentation

Observational drawing

Designer research

Manufacturing bespoke, functioning products for a target market

Product testing



Use the tools, equipment and machinery needed to manufacture an accurate product.



Demonstrate skills by producing an excellent product



Year 9

The importance of using design in every day life.

Designing and testing product solutions

Accurate marking out and cutting

constructing an accurate product

Experimentation with finishes

Exploring design movements

Understanding the key pieces of equipment needed to manufacture product by hand.

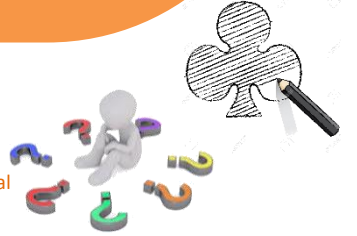


Analysing the work of others to develop and generate my own ideas.

Year 8



Be able to suggest solutions for technical problems.



Joining and finishing materials

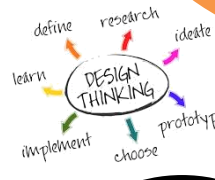
Using hand tools and machinery

Marking out a wood joint

Testing and evaluating a product

Practising manufacture techniques

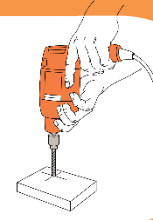
Designing products for a client



Consistently skilful and accurate when manufacturing



Able to independently name and select appropriate tools, machines and equipment with confidence.



Comparing products



Year 7

Baseline activity

The importance of design and technology in the wider world.

Analysing the work of others

Experimentation and design generation

Tools used for cutting

Tools used for finishing

Applying finishes and attaching materials.



Can confidently demonstrate understanding of Health & Safety



Health & Safety

