

KS3 YEAR 9 CURRICULUM OVERVIEW

SUBJECT: DESIGN TECHNOLOGY

PROJECT 1 Time Piece Avoiding design fixation and CAD/CAM

Topics being taught

- Introduction to the work of designers – 'Vitra' Design.
- Designing and producing a clock based on the works of the design company Vitra.
- Concept idea generation and development (speed sketching).
- CAD and CAM knowledge and understanding to aid the development and manufacture of design(s), prototypes and final product.
- Writing a design brief.
- Secondary research combined with analysing the work of designers and iconic products.
- Present design work with creativity, skill and clarity of communication.
- Writing a specification
- Presentation through the use of a mini portfolio.

What you will be assessed on

- Quality of final manufactured product(s) using CAD/CAM
- Knowledge of tools, materials and processes of manufacture.
- Designing and presentation skills based on Vitra shapes.
- Portfolio of evidence to include investigations, design, development and manufacture of products.
- Knowledge and understanding of Vitra design, including designers and companies.

How you can support at home

- Appropriate drawing equipment required.
- Support home learning tasks linked to project.
- Visit Red Brick mill in Batley, Leeds.

PROJECT 2 Proto speaker Design context and modelling

- Secondary/primary research
 - Existing products/work of others for inspiration.
 - Detailed product analysis/client profiles. Dieter Rams – 10 principles of good design.
- Concept idea generation using inspiration sketching to achieve originality.
- Development through CAD/CAM/styrene modelling – developing iteratively producing a variety of outcomes.
- Designing sustainably.
- Evaluating.
- Scale/size modelling and prototyping.

- Quality of final manufacture prototype.
- Use of inspiration to creatively design.
- Knowledge and understanding of Dieter Ram's '10 principles of good design'.
- Quality of design presentation.
- Knowledge of tools, materials and processes of manufacture.

- Support home learning tasks linked to project.
- Appropriate drawing equipment required.

