



Curriculum Map : DT+ Engineering



Revision for Theory Exam
Component 3-theory

Revision for Theory Exam
Component 2a/b

NEA-Design Realisation
Component 3-theory

NEA-Iteration Component 3-theory+ revisit comp 1a+b

NEA Finalised-ready to print Eng. Component 2c Making

Contextual challenge-NEA, Eng. Component 2c Making

GCSE NEA projects 1st June Component 2

Eng. Component 2 deconstruction of a product DT-Making principles – NEA-

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Yr. 11- Engineering Students investigate a engineering product by understanding how each sector works together, Comp 2 and 3 is based around understanding how a design engineered product is manufactured, apply theoretical processes to answer a engineered scenario and external test

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Evaluation of the NEA process is completed throughout the project

Final idea is manufactured and evaluated alongside a making diary

Design development and the iterative cycle, culminating in a final solution and prototype

Yr. 11- DT Students investigate and choose the context of their choice, to identify a problem customer design brief and specification

Yr. 10- DT-Students complete mock NEA's, "environment and drawing skills". Each NEA combines theoretic knowledge Within the allocated time Engineering – focus on components 1 and design based making

Eng-Theory skills through design process DT-Core technical principles

Component 1a research of a design based company –DT practical challenge

DESIGN recap - electronic principles Speaker/ torch light DT- tech drawing skills

Contextual challenge Eng. Speaker DT- tech drawing skills-

Make -Engineering- Theory of mechanisms and plastics. Design for a client

Material working with wood - Design project – mini light/ key holder

Evaluate Box challenge Energy and materials working with polymers-

Contextual challenge lighting project – Memphis DT- NEA challenge

Yr9. Students learn how to investigate context and identify a problem determine a customer, design a brief and specification

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New and emerging technologies mood light smart materials - iterative cycle

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Yr. 8 Introduction to presentation techniques and basic modelling and prototyping ,investigating design possibilities

Yr.7,Yr.8. All study :Food Technology and Design and Technology

Yr. 7 Learning is based around appertaining knowledge and building basic technical knowledge in understanding links to GCSE and vocational routes - research and communicating these findings

- Design + make
- Creativity
- Cultural links
- Critical evaluation

Eval Culture Textiles- specialist technical principles Project 12 weeks

Design skills, CAD/CAM iterative cycle Project- wood/ plastics- PHONE HOLDER- totem pole- box

Recap Orthographic and Drawing skills Baseline Assessment- Design principles Group project

Evaluate Themed Project – test knowledge drawing and design

MAKE Mini torch Ear wrap / picture framewall hanging 2D Design Themed Project

Acrylics design knowledge – wood joints spatula/book ends

DESIGN Desk top wood (CAD) 10 weeks

Drawing and skills graphical knowledge DP1

Baseline Test Wood, acrylic and textiles

MAKE skills and core theory and Phone holder – etc design make project

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