

KS5 and more!

EXAM

Revision

Continuation from y10 - Design Brief, Design Specification, Idea Generation, Idea Development, Prototyping, CAD/CAM, Planning, Making and evaluating

NEA

Year 11

Non-Exam Assessment - Secondary and primary research, Product Analysis, Task Analysis, Surveys, Client Interviews

NEA

KEY PRINCIPLES OF THE GCSE

PROBLEM SPOTTING
ITERATION
EVALUATION
USER LED DESIGN
PROTOTYPING
PRIMARY RESEARCH
CLIENT FEEDBACK
PROBLEM SOLVING

CAREERS AND CROSS CURRICULAR LINKS

SCIENCE
MATHEMATICS
BUSINESS
PHYSICS
ENGINEERING
PROJECT MANAGEMENT
MARKETING
PRODUCT DESIGN
RESEARCH

Design Museum Trip

Polymers

Sources, Extraction, Ethical and Environmental factors. Stock Forms, Specific Polymers, Properties, Uses, Forming and Finishing

Designing and Making Principles

User centred design, inclusive design, innovation and iteration. Management of materials, workshop processes and equipment.

Practical Skills Project

Forces & Stresses, Improving, Functionality, Eco & Social, Footprint, The 6Rs, Scales of Production

Specialist Technical Principles

Papers & Boards Woods Metals Polymers Textiles - Properties and Applications

Materials & properties

Energy Storage & Generation, Modern, Smart & Composite Materials, Systems, Electronics, Mechanical Devices

Energy, Systems and Devices

Industry, Sustainability, People & Culture, Production Techniques, Design Decisions

New and Emerging Tech

Year 10

GORDON'S D&T
KS4 CURRICULUM MAP