KS5 and more!

EXAM

Revision

Non-Exam Assessment, Self Directed Project, User Led Design, Primary & Secondary Research, Creative Idea Generation, Sketching, Prototyping, Evaluation, Iteration, Material Testing, Prototype Testing, CAD, CAM

NEA

Year 11

Research Methods, Iconic Designers, Creative Strategies, Material Selection, Material Management, Workshop Processes, Health & Safety

Designing & Making Principles

Sources, Extraction, Stock Forms, Specific Poymers, Properties, Uses, Forming and Finishing

Polymers

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

Specialist Technical Principles

Live Design Competition, Responding to a Brief, Design Generation, Prototyping, Iteration, Pitching Ideas, Group Working

Design Ventura Competition

Design Museum Trip

Energy, Systems and Devices

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

Materials & properties

Papers & Boards, Woods Metals Polymers Textiles

Wood Joining Project

Marking Accuracy, Cutting, Kerf Allowance, Comb Joint, Routing, Sanding, Finishing, CAD, CAM

New and Emerging Tech

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

Acrylic Ruler Project

Polymer Properties, Techsoft (CAD), laser cutting (CAM), Accuracy & Precision

Year 10

GORDON'S D&T KS4 CURRICULUM MAP

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