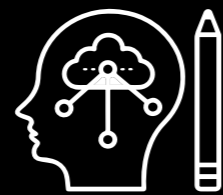


University & Apprenticeships!



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

EXAM

Revision

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

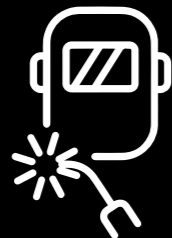
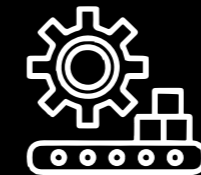
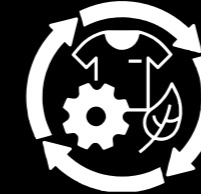
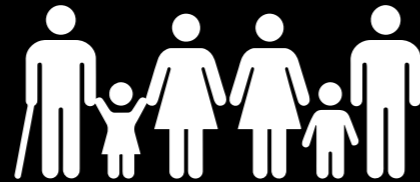
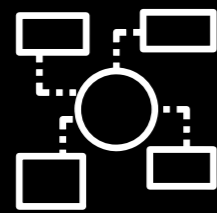
NEA

Year 13

Eco Issues, Circular Economy, Energy Conservation, Quality Assurance & Control,

Responsible Design

Product Development, Inclusive Design, Safe Working Practices, Design for Dissassembly, Feasibility, Enterprise, Communicating Ideas, Design Influences, Socio Economic Influence, Developments in Technology



Types, Stock Forms, Properties, Application, Forming, Treatments & Finishing

Composite Materials

Composite Materials, Smart Materials, Modern Materials

Industrial Practice

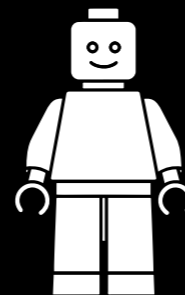
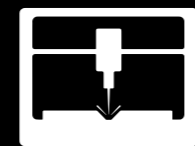
Scales of Production, Computer Systems, Digital Design, Modelling

Product Design

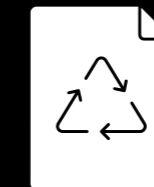
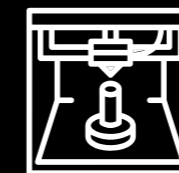


Metals

Types, Stock Forms, Properties, Application, Forming, Treatments & Finishing



GORE-TEX®



Polymers

Hand Tools, Metal & Wood Turning, CAD/CAM (Laser Cutting & 3D Printing), Using Jigs & Templates

LEGO Project

Types, Stock Forms, Properties, Application, Forming, Treatments & Finishing

Woods

Types, Stock Forms, Properties, Application, Forming, Treatments & Finishing

Papers & Boards

Year 12

