Design & Technology Curriculum Map

D&T offers you a curriculum which will engage and enthuse a passion for the subject. Giving you the opportunity to explore practical activities which will enable you to master the skills and secure your knowledge. D&T provides the subject specific skills and knowledge as a platform for you to take your next steps, from KS3 to KS4 & KS5, then onto a professional career within the Creative sector or further education.

YEAR 13

Exam & Post 18 Destination

Exam Content: Principles of Design and Technology

Sustainability · Manufacturing Industries · Evaluation · Testing · CAM · Computer Aided Design · Prototype · Design · Industry Standards · Design Maths

Non Examined Assessment (Testing & Evaluation)

Feedback · Review

Non Examined Assessment (Design, Develop & Manufacture)

Manufacture · Calculate · Iterative Design

Mini NEA – Combining Living and Working

Design Brief · Specification · Design · Prototype · Manufacture · Materials · Communication · Enterprise · Teamwork

Exam Content: Principles of Design and Technology

Material Properties · Graphic Communication

Non Examined Assessment (Research)

Research · Product Analysis · Research Analysis · Specification · Stakeholders Research · Research Context

YEAR 12

Household Gadget Design Challenge

Research · Iterative Design · Evaluation · Testing · Tools & Equipment · CAD/CAM · Health & Safety · Problem Identification · Design Brief · Prototype · Design Process

Revision: Core & Specialist Exam Content

Core Materials · Timber · Design Maths

Non Examined Assessment (Testing & Evaluation)

Evaluation · Testing · Life Cycle Analysis · Feedback · Review

Non Examined Assessment (Design, Develop & Manufacture)

CAM · Computer Aided Design · Prototype · Design · Manufacture · Calculate · Iterative Design

YEAR 11

Specialist Exam Content

Timber Properties and sources · Manufacturing Tools & Equipment · Sustainability · Sources

Focused Practical Tasks

Hand tools · Machine tools · Accuracy of finish

Non Examined Assessment (Research)

Research · Product Analysis · Research Analysis · Specification · Stakeholders Research · Research Context

Mini NEA: Solar Lighting

3D Printing · 3D Computer Aided Design · Soldering · Iterative Design · Product Analysis · Research Analysis · Research · Specification · Design Brief · Modifying Designs · Finishes & Treatments · Selection factors · Marking out · Types of Finish · Fixings · Problem Identification · Design Brief

YEAR 10

Core Exam Content

Systems · Polymers · Metals · Textiles · Paper and Card · Timber

Mini NEA: Organiser

Laser Cutter · Computer Aided Design · Product Analysis · Thermo forming · Design Brief · Soldering

Festive Light

Computer Aided Design · Programming

Design Ventura

Communication · Enterprise · Teamwork · Prototype · Design Process

YEAR 9

Moodlight

Soldering · Programming · Electronics

Biomimicry & Mechanisms Hazardous Waste Challenge

Structures · Forces · Biomimicry Design · Testing · Laser Cutter · Mechanisms · Levers · Linkages · Prototype

Board Game

Graphic Design · Advanced Patterns · The Forest Stewardship Council · Paper and Card · Packaging Die Cutter · Recycle

YEAR 8

CAD 3D Spinner

3D Printing · 3D Computer Aided Design · Sustainability of Polymers

User Centred Design

Isometric Drawing · Design Brief & Specification · Graphic Design · Product Analysis · Target User

Electronic Organ

Vinyl Cutting · Electronics · Thermo forming · Soldering · Health & Safety

Art Deco Passive Amp

Timbers · Health & Safety · Shapes · Surface Finishes · Pillar Drill · Workshop Tools · Marking out

YEAR 7

Investigate • Design & Prototype • Analyse & Evaluate • Core Technical Skills