

2023/24

Year 10

**Unit One: Key ideas in D&T**

- Technology in Manufacturing
- Production Systems CAD/CAM
- Product Sustainability
- Social Issues
- Products in Society
- Powering Systems

**Unit Two: An introduction to Materials and Systems**

- Properties of materials
- Paper, Board and Timber
- Metals, Alloys and Polymers
- Textiles
- Manufactured Boards
- Electronic Systems
- Mechanical Systems
- Developments in New Materials

Assessment to include prior learning

**Unit Three: More About Materials**

- Selecting Materials
- Forces and Stresses
- Scales of Production
- Quality Control
- Production Aids
- Production of Materials

Assessment to include prior learning

**Unit Four: NEA**

- Investigating the Context
- Research and Analysis
- The work of others
- Design Briefs and Specifications
- Generating Ideas
- Developing Idea
- CAD

Assessment to include prior learning

**Unit Five: Designing**

- Design Strategies
- Drawing Techniques
- Manufacturing Specifications
- Developing Prototypes
- Working Safely

Embed into NEA

Include Contextual Designing tasks in preparation for NEA between units where appropriate

NEA contexts launch on 1<sup>st</sup> June  
Easter Deadline  
Include Revision via independent study tasks during NEA component

# GCSE Design & Technology

Year 11

**Unit Six: Specialist Principles**

- Wood, Metals and Polymers
- Stock Forms/Standard Components
- Hand Tools
- Power Tools
- Shaping Techniques
- Moulding and Joining
- Treatments and Finishes

Embed into NEA and taught discretely after Easter

**Unit Seven: Exam Preparation**

- Revisit Key topics
- Walk and Talk Exams
- Revision
- Intervention

Re-engage prior learning and revisit units One, Two and Three during revision

Please refer to AQA Syllabus

**Examination**

50% Weighting  
2 Hours  
100 marks

End Points

**NEA**

50% Weighting  
Portfolio &  
Prototype(s)  
100 marks