Year 11 NCFE Level 1/2 Technical Award in Engineering

**Course Overview**

**Unit 1: Engineering Principles (Written Exam – 40%)**

– 1 hr 30 mins, externally assessed

– Topics: materials, processes, maths, drawings, health & safety, sustainability

**Unit 2: Engineering Skills (NEA – 60%)**

– Practical project set by NCFE (starting in October 2025)

– Assesses design, planning, making, testing, evaluation

## How Parents Can Help

* Encourage revision of key maths (ratios, area, volume, tolerances).
* Quiz with flashcards: tools, materials, processes, H&S.
* Help with organisation of coursework deadlines – final deadline March 2026
* Ask them to explain processes out loud.
* Remind them neat drawings/annotations gain marks.

## Key Content

* Materials: metals, polymers, composites – properties & uses.
* Processes: machining, joining, forming, CAD/CAM, 3D printing.
* Engineering Maths: formulas, units, ratios, forces, stress/strain basics.
* Drawing & Representation: orthographic, isometric, circuit diagrams.
* Health & Safety: PPE, risk assessments, workshop safety.
* Sustainability & Wider Issues: life cycle, efficiency, recycling.

## Resources

* Revision Guides: Hodder/Illuminate NCFE Engineering ISBN 1398378968 £10 Amazon
* Websites: NCFE Qual Hub (specs & past papers), Technology Student.
* YouTube: Craig ‘n’ Dave, Engineering/DT tutorial channels.

## Top Parent Tip

The BEST support is regular practice of **engineering maths** + testing knowledge of processes and materials.