



Edgbarrow School
Year 10
Design & Technology – Engineering



Curriculum Intent

The purpose of D&T is to develop passionate designers & engineers who are active agents of change in an advancing technological and mindful society.

What am I studying this year?

Project	Topics	Assessment
Head phone wrap	Accuracy when marking out, Using working drawings, Hand tool skills, Pillar drill safe use	All projects are assessed using the exam board acceptable levels of tolerance in manufacturing – with a mixture of teacher and self-assessment Students will also complete 3 mocks through the academic year along with regular online theory testing.
Wall hanger	Accuracy when marking out, Using working drawings, Hand tool skills, Pillar drill safe use	
clock	Accuracy when marking out, Using working drawings, Vacuum forming	
Mini hammer	Accuracy when marking out, Using working drawings, Line bending, JIG manufacture	
Tool box	Accuracy when marking out, Using working drawings, Tapping & threading	
Theory	See below	Each week an online mini test of previous weeks theory
Metals, polymers, material stock forms, material properties, composites, smart materials, orthographic drawing, sustainability, electronics, effects of engineering, testing of materials, CAD & CAM, isometric drawing, maths in engineering, scale drawing, plastic forming, metal forming, material finishes, joining techniques, heat treatment of metals, work shop processes, drawing conventions.		

When and how will I be assessed?

As you will be sitting your Engineering theory exam in Year 10 (approx. May) you will have four mock exams (October, December, February and March)

The weekly mini tests are used to identify areas of improvement for you to use in help you plan/target your own revision for your engineering theory exam.

Practical projects are assessed using the exam boards guide on acceptable levels of tolerance when manufacturing projects and are teacher, self, peer or a combination of these assessed.

Marking for Literacy

(Longer answers and written work will be marked for at least one of the below, your teachers will tell you which)

Sp – Spelling mistake of key term

// - Needed new paragraph

C – Capital letter missing

P – Punctuation needed

Expr – Expression

Subject Specific Literacy:
see separate document

Students will demonstrate pride in their work by:

- Presenting information clearly and neatly to aid learning
- Using a title and date for all work including homework
- Underlining all dates and titles using a ruler
- Writing in blue or black pen
- Completing drawings and diagrams in pencil
- Glue in sheets flat and in order
- Annotating work and making corrections in coloured pens
- Crossing out mistakes neatly with a line
- Highlighting key words and concepts