Level 1/2 ENGINEERING

Ormiston Bolingbroke Academy
Nurture • Support • Excellence

KS4 ENGINEERS

YEAR 10

Unit 1 Coursework

- AC3.2 describe applications of engineering processes
- AC3.1 describe engineering processes
- AC1.2 identify features of engineered products that meet requirements of a brief
- AC1.3 describe how engineered products function
- AC2.1 drav engineering design solutions
- AC2.2 communicate design ideas
- AC3.1 develop creative ideas for engineered products
- AC3.2 evaluate options for design solutions
- Task Analysis
- Product Analysis
- Design Ideas
- 3rd Angle Projection
- Developed Ideas

Unit 3

- LO3 know forming processes of engineering materials
- AC2.3 select materials for a purpose
- AC2.2 explain how materials are tested for properties
- AC2.1 describe properties required of materials for engineering products
- LO2 understand properties of engineering materials
- AC1.3 environmen tal issues
- AC1.2 explain effects of engineering achievements
- AC1.1 describe engineering developments
- LO1 understand effects of engineering achievements

YEAR 11

Unit 3

- AC4.1 use mathematical techniques for solving engineering problems
- LO4 be able to solve engineering problems
- Practical: processes in the workshop
- **RECAP: engineering processes**
- Practical: Working with materials
- **RECAP: Materials and their properties**
- LO2 understand properties of engineering materials
- AC3.3 produce design specifications
- Practical
- Practical

Unit 2

- AC4.2 convert between isometric sketches and 3rd angle orthographic projections
- AC4.3 analyse situations for engineering problems
- AC4.4 propose solutions in response to engineering problems
- **RECAP: engineering processes and materials**
- LO1 be able to interpret engineering information
- **Unit 2- Producing engineering products - Lamp**
- AC2.2 sequence required activities
- AC2.1 identify resources required
- AC1.2 interpret engineering information
- AC1.1 interpret engineering drawings
- Plan of making

Unit 3

- AC3.1 use tools in production of engineering products
- AC3.2 use equipment in production of engineering products
- AC4.1 use engineering processes in production of engineered products
- AC4.2 evaluate quality of engineered products
- Practical
- Evaluation
- EXAM REVISION
- FINAL EXAM

Unit 1 – 25%	Unit 2 – 50%	Unit 3-25%