GCSE Design Technology: Engineering

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Curriculum Intent: To demonstrate their knowledge, understanding and skills through interrelated iterative processes that 'explore' needs, 'create' solutions and 'evaluate' how well the needs have been met.

Core Knowledge	Procedural Knowledge
Topics:	Students will:
1. Identifying requirements.	Complete an Electronic Engineering unit covering
2. Learning from existing products and practice.	technical understanding, focussed practical tasks and a design and make project.
3. Implications of wider issues.	
4. Design thinking and communication.	Complete a Mechanical Engineering unit covering technical understanding, focussed practical tasks and a
5. Material considerations.	design and make project.
6. Technical understanding.	Complete a NEA (coursework) project from June 1 st Y10 until March Y11.
7. Manufacturing processes and techniques.	
8. Viability of design solutions.	
Homework:	

Weekly quizzes on core content.

Later on, NEA work each week.

Revision on the Seneca platform.

Assessment:

Verbal and informal formative feedback.

Weekly quizzes on core content.

Summative levels for each project.

Assessed and graded exams at assessment weeks.

Assessed past paper questions.

Links to Personal Development:

KS5 Sixth Form A Levels in Product Design or Design Engineering.

Level 3 apprenticeships.

How is my knowledge developed further at Key Stage Five?

The skills learnt at GCSE enable students to enter the A Level course with the necessary skills to complete coursework and respond to design briefs.