## **GCSE** Design Technology: Engineering

Subject Leader: Mr T Priest

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<b>Curriculum Intent:</b> 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:
I. Identifying requirements.	Complete an Electronic Engineering unit covering technical understanding, focussed practical tasks and a design and make project. Complete a Mechanical Engineering unit covering technical understanding, focussed practical tasks and a design and make project.
2. Learning from existing products and practice.	
3. Implications of wider issues.	
4. Design thinking and communication.	
5. Material considerations.	
6. Technical understanding.	Complete a NEA (coursework) project from June 1st Y10 until March Y11.
7. Manufacturing processes and techniques.	
8. Viability of design solutions.	
Homework:	
Homework: Weekly quizzes on core content.	
Later on, NEA work each week.	
Revision.	
Seneca.	
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.	