



MAGHULL HIGH SCHOOL – CURRICULUM MAP

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
UNIT 3	Completion of Learning Aims B, C and D through iterative design exercises. This will include working through past papers, exemplar materials and examiners reports.	Completion of Learning Aims B, C and D through iterative design exercises. This will include working through past papers, exemplar materials and examiners reports.	Completion of Learning Aims B, C and D through iterative design exercises. This will include working through past papers, exemplar materials and examiners reports.	Revision	Revision	Part A release date 10/5/2022 Part B release date 17/5/2022. Deadline for completion 7/6/2022. Posted by 9/6/2022
Knowledge & Skills development	<ul style="list-style-type: none"> Unit 3. Engineering Product Design and Manufacture. Learning Aim A Design triggers, challenges, constraints and opportunities, and materials and processes A1 Design triggers A2 Design challenges A3 Equipment level and system level constraints and opportunities A4 Material properties A5 Mechanical power transmission. A6 Manufacturing processes. C Using an iterative process to design ideas and develop a modified product proposal C1 Design proposals C2 Communicating designs C3 Iterative development process D Technical justification and validation of the design solution D1 Statistical methods D2 Validating designs 					
Assessment / Feedback Opportunities	Cold calling to check for understanding. Visual check on note taking. Verbal formative feedback for Unit 3.					
Cultural Capital						

	Pupils develop understanding of Engineering sectors and roles involved.
SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	Working in groups to discuss Engineering sectors helps promote tolerance, respect for each other.
Reading opportunities	Reading research on Engineering sectors and organisations.
Key Vocabulary	Engineering, aerospace, automotive, communications, electrical/electronics, mechanical, environmental, transport, rail and marine
Digital Literacy	Use internet to help research.
Careers	Pupils develop knowledge of the following engineering sectors and the roles included; aerospace, automotive, communications, electrical/electronics, mechanical, environmental, transport, rail and marine.