



MAGHULL HIGH SCHOOL – CURRICULUM MAP

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
UNIT 3	<ul style="list-style-type: none"> A4 Material properties A5 Mechanical power transmission. A6 Manufacturing processes 	<ul style="list-style-type: none"> A4 Material properties A5 Mechanical power transmission. A6 Manufacturing processes 	<ul style="list-style-type: none"> A4 Material properties A5 Mechanical power transmission. A6 Manufacturing processes 	<ul style="list-style-type: none"> B Interpreting a brief into operational requirements and analysing existing products B1 Design for a customer 	Revision Learning Aim A	Revision Learning Aim A
Unit 2	Completion of practical elements for Unit 2	Completion of practical elements for Unit 2	Completion of practical elements for Unit 2	Completion of practical elements for Unit 2	Completion of practical elements for Unit 2	Unit 2. Learning Aim C Assignment deadline: 19/12
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. B Interpreting a brief into operational requirements and analysing existing products B1 Design for a customer Completion of practical elements for Unit 2. Learning aim C: Carry out engineering processes safely to manufacture a product or to deliver a service effectively as a team. C1 Principles of effective teams. C2 Team set-up and organisation. 					

	<ul style="list-style-type: none"> • C3 Health and safety risk assessment. • C4 Preparation activities for batch manufacture or batch service delivery. • C5 Delivery of manufacturing or service engineering processes.
Assessment / Feedback Opportunities	<p>Cold calling to check for understanding.</p> <p>Visual check on note taking.</p> <p>Verbal formative feedback for Unit 3 and summative guidance for Unit 2.</p>
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.