



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"> • Introduction to Unit 3. • Principles of Isometric drawing. • Principles of Orthographic Drawing. 	<ul style="list-style-type: none"> • A1 Design triggers • A2 Design challenges • A3 Equipment level and system level constraints and opportunities 	<ul style="list-style-type: none"> • A3 Equipment level and system level constraints and opportunities • A4 Material properties 	<ul style="list-style-type: none"> • A4 Material properties 	<ul style="list-style-type: none"> • A4 Material properties 	<ul style="list-style-type: none"> • A4 Material properties
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	Completion of practical elements for Unit 2
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 • 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. • 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.