

Year 12 Engineering

Autumn Term 2

MAGHULL HIGH SCHOOL Engineering



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
UNIT 1	Learning Aim A1 Learning Aim B1 Learning Aim E1	Learning Aim A1 Learning Aim B2 Learning Aim E1	Learning Aim A1 Learning Aim B2 Learning Aim E2	Learning Aim A1 Learning Aim B2 Learning Aim E2	Learning Aim A1 Learning Aim B2 Learning Aim E2	Learning Aim A1 Learning Aim B2 Learning Aim E2
UNIT 10	<ul style="list-style-type: none"> Pupils to work through relevant Solidworks tutorials to prepare them for Learning Aim A Assignment. Assignment 1 Deadline 9/12/2021 					
Knowledge & Skills development	<ul style="list-style-type: none"> Unit 1. Engineering Principles: Learning Aims A, B, C, C, D, E, F, G <p>Learning aim A: Develop a three-dimensional computer-aided model of an engineered product that can be used as part of other engineering processes</p> <ul style="list-style-type: none"> A1 3D parametric modelling A2 Develop 3D components A3 Develop a 3D model 					
Assessment / Feedback Opportunities	<p>Cold calling to check for understanding. Visual check on note taking. Visual check on CAD ability/understanding. Marking of homework and in class quizzing.</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	CAD					

Careers	Pupils develop knowledge of the following engineering sectors and the roles included; aerospace, automotive, communications, electrical/electronics, mechanical, environmental, transport, rail and marine.
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