



| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 |
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| UNIT 1 | Careers PowerPoint. First lessons on using a calculator, transposition of formulae, SI prefix and SI units. | First lessons on using a calculator, transposition of formulae, SI prefix and SI units. | First lessons on using a calculator, transposition of formulae, SI prefix and SI units. | First lessons on using a calculator, transposition of formulae, SI prefix and SI units. | Learning Aim A1 Learning Aim B1 Learning Aim E1 | Learning Aim A1 Learning Aim B1 Learning Aim E1 |
| UNIT 10 | Pupils to work through relevant Solidworks tutorials to prepare them for Learning Aim A Assignment. | | | | | |
| 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. | | | | | |

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| 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. |