

Engineering Curriculum Map

| | | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|---------|------------|--|--|--|--|---|---|
| Year 10 | Topic | Engineering disciplines, engineering materials and engineering drawings. Students will start to learn what the different engineering disciplines do, when to select different metals for engineering projects and the form of engineering drawings | Engineering drawings and practical tasks Students will design and build a multispanner using skills learnt in lessons | Units, engineering mathematics, isometric drawings Students will develop their engineering drawing skills and work on the units and mathematics within engineering | Engineering materials, polymers and wood, practical engineering skills Students continue to work on drawing skills. Students learn about the properties of polymers and wood | Engineering drawings and practical tasks Students will design and build a mobile phone stand using skills learnt in lessons | Revision for Year 10 pre mock assessments |
| | Assessment | Assessment based on past exam questions. | Project based assessment of design and build | Assessment based on past exam questions. Assessment of drawing skills | Assessment based on past exam questions. Assessment of drawing skills | Project based assessment of design and build | Pre Mock Assessment |
| | PREP | Lesson by lesson prep, based on content in the exams | Drawing and design prep. | Lesson by lesson prep, based on content in the exams | Lesson by lesson prep, based on content in the exams | Drawing and design prep. | Lesson by lesson prep, based on content in the exams |
| Year 11 | Topic | Engineering disciplines, health and safety and CAD Students learn the last engineering processes, the health and safety and CAD design. | Health and safety, CAD design and production planning Students continue to work on health and safety, CAD design and work on production planning | Internally marked assessment Full internally marked assessment project | Control measures, production plans Students learn the control measures and production plans. | General exam revision | |

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| | Assessment | Assessment based on past exam questions. | Project based assessment of design and build | Project based assessment of design and build | Assessment based on past exam questions. | | |
| | PREP | Lesson by lesson prep, based on content in the exams | Drawing and design prep. | Drawing and design prep. | Lesson by lesson prep, based on content in the exams | | |