

STEAM Year 11 Unit Overview

You will

Learn about:

NEA + Subject content starters

<p>Lesson Overview</p> <p>Lesson 1 – Brief and Problem Lesson 2 – Client and Target Audience Lesson 3 – Research and Analysis - ACCESSFM Lesson 4 – Design Criteria/Specification Lesson 5 – Initial Design ideas Lesson 6 – Initial design ideas modelling Lesson 7 – Initial design ideas modelling/development Lesson 8 – Final design – Orthographic drawing Lesson 9 – Final design client review Lesson 10 – Further development (following feedback)</p> <p>Note: This is a dynamic task and students will be at different stages during different lessons.</p>	<p>Key Words</p> <p>Analysis Data ACCESSFM – Acronym Design Specification Modelling Development Iterative design</p>
<p>Suggested reading or support available</p> <p>www.Technologystudent.com</p>	<p>Cross curricular</p> <p>Science – Physics/Maths SMSC Sustainability</p> <p>Literacy links</p> <p>Sentence structure reviewed during knowledge pit stops.</p>

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<p>Lesson Overview</p> <p>Lesson 1 – CAD Lesson 2 – CAD Lesson 3 – CAD Lesson 4 – CAD Lesson 5 – CAD Lesson 6 – Assembly and construction Lesson 7 – Assembly and construction Lesson 8 – Assembly and construction Lesson 9 – Assembly and construction Lesson 10 – Assembly and construction</p> <p>Note: This is a dynamic task and students will be at different stages during different lessons.</p>	<p>Key Words</p> <p>View plane Orientation Patience Accuracy Tolerance Assembly Quality</p>
<p>Suggested reading or support available</p> <p>www.Technologystudent.com</p>	<p>Cross curricular</p> <p>Science – Physics/Maths SMSC Sustainability</p> <p>Literacy links</p> <p>Sentence structure reviewed during knowledge pit stops.</p>

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<p>Lesson Overview</p> <p>Lesson 1 – Evaluation Lesson 2 – Evaluation Lesson 3 – Reflect and review Lesson 4 – Reflect and review Lesson 5 – Exam prep Lesson 6 – Exam prep Lesson 7 – Exam prep Lesson 8 – Exam prep Lesson 9 – Exam Lesson 10 – Exam review</p> <p>Note: NEA reflect and review may be ongoing for some up until hand in date on the 12th of Feb.</p>	<p>Key Words</p> <p>Reflection Evaluation Analysis</p>
<p>Suggested reading or support available</p> <p>www.Technologystudent.com</p>	<p>Cross curricular Science – Physics/Maths SMSC Sustainability</p> <p>Literacy links</p> <p>Sentence structure reviewed during knowledge pit stops.</p>

STEAM Year 11-unit Overview – Completion date: 2021 – 1st May

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<p>Lesson Overview</p> <p>Lesson 1 – Revision – Mechanisms/ levers and linkages Lesson 2 – Revision systems approach and basic electronics Lesson 3 – Revision – Materials – Metal and plastic Lesson 4 – Revision – Materials – Timber, Ceramics and Smart materials Lesson 5 – Revision – Production processes and quality control Lesson 6 – Revision – Tolerances / Jigs / Fixtures / Go- NoGo gates Lesson 7 – Revision – FSM/JIT/Lean Manufacturing Lesson 8 – Revision – Sustainability – Planned Obsolescence Lesson 9 – Revision – Energy – renewable/Non renewable Lesson 10 – Revision – Exam technique</p>	<p>Key Words</p> <p>Planned Obsolescence Market Pull Technological Push CAD/CAM Sustainability Ethical Design Renewable Non renewable</p>
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