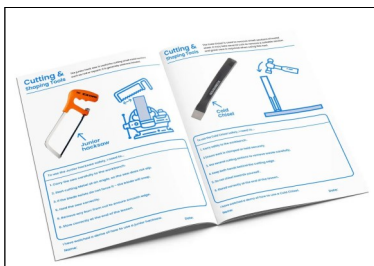
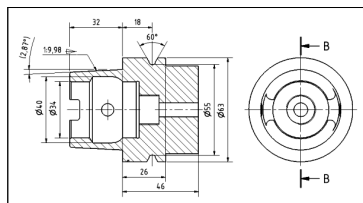
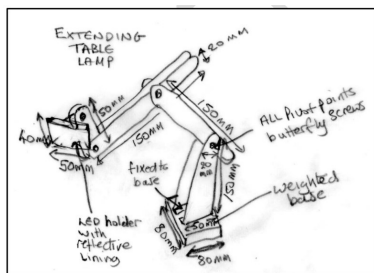
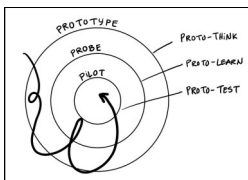





Year 9 Engineering Curriculum

Term	Curriculum content																
<div>Michaelmas 1</div> <div></div>	<div>Introduction to NEA (Analysis, material comparison, practical)</div> <div>Start NEA Practice Unit—LED Table Lamp</div> <div><ul style="list-style-type: none">Health and safety in the workshop introduction.Tools and equipment, expectations in the workshop.Drawing techniques including CAD</div>																
<div>Michaelmas 2</div> <div></div>	<div><ul style="list-style-type: none">MechanismsDrawing techniques including CAD</div>																
<div>Lent 1</div> <div><div>Properties</div><div>Each type of timber or board has different physical and working properties that define their uses. Some timbers are hard and very dense, whereas others are lighter and softer to cut and work with.</div><table><thead><tr><th>Hardwood</th><th>Physical properties</th><th>Working properties</th><th>Uses</th></tr></thead><tbody><tr><td>Beech</td><td>White to pinkish-brown colour, close-grained</td><td>Hard, tough, warps easily</td><td>Furniture, flooring and tool handles</td></tr><tr><td>Oak</td><td>Light-brown colour, open-grained</td><td>Hard, tough</td><td>Interior woodwork, good-quality furniture</td></tr><tr><td>Mahogany</td><td>Reddish-brown colour, interlocking grained</td><td>Durable</td><td>Good-quality furniture</td></tr></tbody></table></div>	Hardwood	Physical properties	Working properties	Uses	Beech	White to pinkish-brown colour, close-grained	Hard, tough, warps easily	Furniture, flooring and tool handles	Oak	Light-brown colour, open-grained	Hard, tough	Interior woodwork, good-quality furniture	Mahogany	Reddish-brown colour, interlocking grained	Durable	Good-quality furniture	<div>Understand Properties of materials and what they re used in our daily lives. Positive and Negative effects of types of engineering on our environment.</div> <div>Understanding the process of critical thinking.</div>
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<div>Lent 2</div> <div></div>	<div>Using the brief as a starting point complete the practice NEA producing outcomes of a high standard with supporting evidence of coursework.</div>																
<div>Trinity 1</div> <div></div>	<div>Continue with coursework.</div> <div>Develop initial prototype, using practical skills developed throughout Unit one.</div> <div>Carry out extensive testing .</div>																
<div>Trinity 2</div> <div></div>	<div>Complete initial prototype, using practical skills developed throughout Unit one.</div> <div>Complete evaluation of product.</div>																