

Design and Technology: Product Design

Year 12 Curriculum Map

Unit One	Unit Two	Unit Three
<p>Topic: Technical Principles</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • Design communication • Enterprise and marketing in development of products • Modern and industrial scales of practice • Digital design and manufacture • Design for manufacturing, maintenance, repair, and disposal • Feasibility studies <p>Assessment: Practical Investigation</p>	<p>Topic: Technical Principles</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • Health and Safety & Standards (DMP) • Materials and their application • Performance characteristics of materials • Enhancement of materials • Forming, redistribution and addition processes • Use of finishes • Requirements for product design and development <p>Assessment: Essay</p>	<p>Topic: Designing and Making Principles</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • Design methods and processes • Design Theory • Technical and cultural changes • Design processes • Critical analysis and evaluation • Design for manufacture and project management <p>Assessment: Practical Investigation</p>
Unit Four	Unit Five	Unit Six
<p>Topic: Designing and Making Principles & NEA Section A and B</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • AO1 (30 marks) • Identify, investigate & outline design possibilities. • A03 (20 marks) • Analyse & evaluate <p>Assessment: In class assessments</p>	<p>Topic: NEA Section C and D</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • A02 (50 marks) • Design & make prototypes that are fit for purpose. • A03 (20 marks) • Analyse & evaluate <p>Assessment: In class assessments</p>	<p>Topic: NEA Section C and D</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • A02 (50 marks) • Design & make prototypes that are fit for purpose. • A03 (20 marks) • Analyse & evaluate <p>Assessment: Progression exam & In class assessments</p>

Design and Technology: Product Design

Year 13 Curriculum Map

Unit One	Unit Two	Unit Three
<p>Topic: NEA Section C and D</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • A02 (50 marks) • Design & make prototypes that are fit for purpose. • A03 (20 marks) • Analyse & evaluate <p>Assessment: In class assessments</p>	<p>Topic: NEA Section C and D</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • A02 (50 marks) • Design & make prototypes that are fit for purpose. • A03 (20 marks) • Analyse & evaluate <p>Assessment: In class assessments</p>	<p>Topic: NEA Section C and D</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • A02 (50 marks) • Design & make prototypes that are fit for purpose. • A03 (20 marks) • Analyse & evaluate <p>Assessment: In class assessments</p>
Unit Four	Unit Five	Unit Six
<p>Topic: Technical Principles & NEA Section D and E</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • AO1 (30 marks) • Identify, investigate & outline design possibilities. • A03 (20 marks) • Analyse & evaluate <p>Assessment: In class assessments</p>	<p>Topic: Technical Principles & NEA Section D and E</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • A02 (50 marks) • Design & make prototypes that are fit for purpose. <p>Assessment: NEA Submission</p>	<p>Topic: Technical Principles & Designing and Making Principles</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • Revision <p>Assessment: Public Exam</p>