

Yr12 (KS5) D&T Product Design	Topic Area	Knowledge/Skills that are taught	Knowledge/Skills revisited	What does good look like?	Resources/support at home
Autumn 1	Design communication Torch D&M H&S Driving licence - machine competency	1.1 Materials & their applications 1.14 Design communication 1.9 Health & Safety	The KS5 D&T curriculum builds directly on KS4 content covered in D&T Product Design. Students who have completed a GCSE in D&T Textiles or Engineering may be less secure in some aspects of the Specialist Designing & making principles. This project revisits the designing, making, evaluation skills and technical knowledge covered in KS4. In this part of the project, pupils have an opportunity to build on a range of design communication skills, understanding of materials and their applications, performance and characteristics. Health & safety is revisited and covered in detail. Teaching of units 1.1, 1.9, 1.14 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 1.1, 1.9, 1.14. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Students develop a range of skills as outlined in Section 3- Non-Examined Assessment, of the specification. Students produce strong design work that may later be used in their university application portfolio.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook
Autumn 2	Playing cards Generating & realising designs Egg cup Generating & realising designs CAD/CAM Serpentine pavilion Generating & prototyping designs  NEA style project - laptop desk	1.2 Performance & characteristics 1.6 Modern & industrial scales of practice 1.7 Digital design & manufacture	Students complete several short Design & Make projects. Pupils have an opportunity to develop and build on designing and design communication skills through production, development and presentation of design ideas. Students build on KS4 iterative design & making skills through modelling in a range of resistant materials, using different tools, equipment and processes. Technical knowledge and skills are revisited. Teaching of units 1.2, 1.6 & 1.7 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 1.2, 1.6 & 1.7 Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Students develop a range of skills as outlined in Section 3- Non-Examined Assessment, of the specification. Students produce strong design work that may later be used in their university application portfolio.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook
Spring 1	AO1 Section A Identifying and investigating design possibilities AO1 Section B Producing a design brief & spec.	1.8 The requirements for product design & development 1.10 Protecting designs & intellectual property	In this half-term, students undertake an NEA Design & Make project. Pupils have an opportunity to revisit & build on skills, knowledge and understanding covered in Section A & B of their GCSE NEA Projects. Teaching of units 1.8 & 1.10 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 1.8 & 1.10. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b>	Quizlet PG online learning resources AQA Past/sample paper questions Hodder textbook

				Students complete an NEA style project and develop a range of skills as outlined in Section 3- Non-Examined Assessment, of the specification. Students produce strong design work that may later be used in their university application portfolio.	
Spring 2	AO2 Section C Development of design proposals AO2 Section D Development of design prototypes AO3 Section E Analysing & evaluating	1.11 Design for manufacturing, maintenance, repair & disposal 1.12 Feasibility studies 1.13 Enterprise & marketing in the development of	In this half-term, students undertake an NEA Design & Make project. Pupils have an opportunity to revisit & build on skills, knowledge and understanding covered in Sections C & D of their GCSE NEA Projects. Students build iterative design & making skills through drawing and modelling in a range of media, using different tools, equipment and processes. Technical knowledge and skills are revisited. Teaching of units 1.11, 1.12 & 1.13 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 1.11, 1.12 & 1.13. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Students complete an NEA style project and develop a range of skills as outlined in Section 3- Non-Examined Assessment, of the specification. Students produce strong design work that may later be used in their university application portfolio.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook
Summer 1	AO2 Section D Development of design prototypes AO3 Section E Analysing & evaluating	1.4 Forming, redistribution & addition processes	In this half-term, students undertake an NEA Design & Make project. Pupils have an opportunity to revisit & build on skills, knowledge and understanding covered in Sections D & E of their GCSE NEA Projects. Students build iterative design & making skills through drawing and modelling in a range of media, using different tools, equipment and processes. Technical knowledge and skills are revisited. Teaching of unit 1.4 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 1.4. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Students complete an NEA style project and develop a range of skills as outlined in Section 3- Non-Examined Assessment, of the specification. Students produce strong design work that may later be used in their university application portfolio.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook
Summer 2	Year 12 End of year exam preparation  NEA AO1 Section A Identifying and investigating design possibilities	Mock Exam preparation Revision, exam practice and technique  3.12 NEA	Subject knowledge covered in Year 12 is revisited prior to Mock Exams.  Students also make a start on their final NEA project, revisiting skills & knowledge learned in Section A & B of the short NEA style project completed in Spring 2.	<b>Knowledge / understanding</b> Students know key words and terms for each unit covered in Year 12. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Students start work on their final NEA project. Identifying and investigating appropriate design possibilities.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook

## Product Design KS5 Curriculum Map

Yr13 (KS5) D&T Product Design	Topic Area	Knowledge/Skills that are taught	Knowledge/Skills revisited	What does good look like?	Resources/support at home
Autumn 1	AO1 Section A Identify, investigate & outline design possibilities AO1 Section B Producing a design brief specification AO2 Section C Development of design AO3 Section E Analysing & evaluating	1.3 Enhancement of materials 1.5 The use of finishes 1.10 Protecting designs & intellectual property 1.11 Design for manufacturing, maintenance , repair & disposal 1.12 Feasibility studies 1.13 Enterprise & marketing in the of products	In this half-term, students continue with their final NEA projects. Pupils have an opportunity to revisit & build on skills, knowledge and understanding covered in Sections AO1 A, B&C of the short NEA style project completed in Year 12.. Students continue to build on iterative design & making skills through drawing and modelling in a range of media, using different tools, equipment and processes. Technical knowledge and skills are revisited. Teaching of units 1.3, 1.5, 1.10, 1.11, 1.12 & 1.13 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 1.3, 1.5, 1.10, 1.11, 1.12 & 1.13. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Development of skills relevant to the NEA, as covered in Section 4 of the spec. NEA sections are completed to deadline and when assessed match descriptors for the highest levels.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook
Autumn 2	AO2 Section C Development of design proposals AO2 Section D Development of design prototypes AO3 Section E Analysing & evaluating	2.1 Design methods & processes 2.2 Design theory 2.3 Technology & cultural changes 2.4 Design processes	In this half-term, students continue with their final NEA projects. Pupils have an opportunity to revisit & build on skills, knowledge and understanding covered in Sections AO1 C&D of the short NEA style project completed in Year 12. Students continue to build on iterative design & making skills through drawing and modelling in a range of media, using different tools, equipment and processes. Technical knowledge and skills are revisited. Teaching of units 2.1, 2.2, 2.3 & 2.4 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 2.1, 2.2, 2.3 & 2.4. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Development of skills relevant to the NEA, as covered in Section 4 of the spec. NEA sections are completed to deadline and when assessed match descriptors for the highest levels.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook
Spring 1	AO2 Section D Development of design prototypes AO3 Section E Analysing & evaluating	2.5 Critical analysis & evaluation 2.6 Selecting appropriate tools, equipment & processes 2.7 Accuracy in design & manufacture	In this half-term, students continue with their final NEA projects. Pupils have an opportunity to revisit & build on skills, knowledge and understanding covered in Sections AO1 D&E of the short NEA style project completed in Year 12.. Students continue to build on iterative design & making skills through drawing and modelling in a range of media, using different tools, equipment and processes. Technical knowledge and skills are revisited. Teaching of units 2.5, 2.6 & 2.7 builds on learning from KS4.	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 2.5, 2.6 & 2.7. Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Development of skills relevant to the NEA, as covered in Section 4 of the spec. NEA sections are completed to deadline and when assessed match descriptors for the highest levels.	Quizlet PG online learning resources Exampro - AQA Past/sample paper questions Hodder textbook
Spring 2	AO2 Section D Development of design prototypes	2.8 Responsible design 2. 9 Design for manufacture & project management	In this half-term, students continue with their final NEA projects. Pupils have an opportunity to revisit & build on skills,	<b>Knowledge / understanding</b> Students know key words and terms for each unit: 2.8, 2.9, 2.10 & 1.4.	Quizlet PG online learning resources

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	AO3 Section E Analysing & evaluating	2.10 National & international standards in PD 1.4 Forming, redistribution & addition processes	knowledge and understanding covered in Sections AO1 D&E of the short NEA style project completed in Year 12.. Students continue to build on iterative design & making skills through drawing and modelling in a range of media, using different tools, equipment and processes. Technical knowledge and skills are revisited. Teaching of units 2.8, 2.9, 2.10 & 1.4 builds on learning from KS4.	Students are able to complete short-answer and extended response past paper questions for the unit covered. <b>Skills</b> Development of skills relevant to the NEA, as covered in Section 4 of the spec. NEA sections are completed to deadline and when assessed match descriptors for the highest levels.	<b>Exampro - AQA Past/sample paper questions</b> <b>Hodder textbook</b>
Summer 1	A-level exam preparation - Paper 1 & 2	Maths / exam technique & practice	Subject knowledge covered in Year 12 & 13 is revisited prior to final examinations.	<b>Knowledge / understanding</b> Students know key words and terms for all units. Students are able to complete short-answer and extended response past paper questions for all units. Students are able to complete Maths questions with confidence.	<b>Quizlet</b> <b>PG online learning resources</b> <b>Exampro - AQA Past/sample paper questions</b> <b>Hodder textbook</b>
Summer 2					