

Year 11 DT Curriculum Map

	Autumn Term	Spring Term	Summer Term
Unit Length	15 weeks	12 weeks	13 weeks
Links to the National curriculum/Assessment Objectives	<ul style="list-style-type: none"> • AO1: Identify, investigate & outline design • AO2: Design and make prototypes • AO3: Analyse and evaluate: 	<ul style="list-style-type: none"> • AO1: Identify, investigate & outline design • AO2: Design and make prototypes • AO3: Analyse and evaluate: • AO4: Apply knowledge of technical principles 	<ul style="list-style-type: none"> • AO1: Identify, investigate & outline design • AO2: Design and make prototypes • AO3: Analyse and evaluate: • AO4: Apply knowledge of technical principles
Description of the topic and key learning outcomes (key knowledge and understanding)	<p>Coursework; Pupils are required to produce a design portfolio of approx. 20 pages which follows the design process against the exam board NEA Each student has a coursework guide to help them structure their work</p> <p>The topics areas covered are:</p> <ol style="list-style-type: none"> 1. Section A – Identifying & investigating design possibilities (A01) 2. Section B – Producing a design brief and specification (A01) 3. Section C – Generating design ideas (A02) 4. Section D – Developing design ideas (A02) 5. Section E – Realising design ideas (making) (A02) 6. Section F – Analysing & evaluating (A03) 	<p>Coursework; Pupils are required to produce a design portfolio of approx. 20 pages which follows the design process against the exam board NEA. Each student has a coursework guide to help them structure their work</p> <p>The topics areas covered are:</p> <ol style="list-style-type: none"> 1. Section C – Generating design ideas (A02) 2. Section D – Developing design ideas (A02) 3. Section E – Realising design ideas (making) (A02) 4. Section F – Analysing & evaluating (A03) <p>Complete practical work for NEA Revision & mock exams</p> <p>A04 - Section A – Core technical principles Section B – Specialist technical principles Section C – Designing and making principles</p>	<p>Complete practical work for NEA Revision & mock exams</p> <p>A04 - Section A – Core technical principles Section B – Specialist technical principles Section C – Designing and making principles</p>
Related Concepts (that are revisited)	The Design process / Contextual analysis/user needs/product analysis/design focus/investigation of designs/design brief/design spec/generating design ideas/developing design ideas/making(realising design ideas)/testing, analysis, evaluation	Core technical principles; <ul style="list-style-type: none"> • new and emerging technologies • energy generation and storage • developments in new materials • systems approach to designing • mechanical devices • materials and their working properties. 	Designing and making principles; <ul style="list-style-type: none"> • Investigation, primary and secondary data • environmental, social and economic challenge • the work of others • design strategies • communication of design ideas • prototype development • selection of materials and components • tolerances • material management • specialist tools and equipment • specialist techniques and processes.
Skills being taught	Investigation, planning of research, research analysis, outline of design, presentation of	Revision for above topics and going through old exam papers.	Revision for above topics and going through old exam papers.

	design ideas using sketching & CAD, producing design prototype (making)		
Milestone assessments	<ul style="list-style-type: none"> • AO1: Identify, investigate & outline design • AO2: Design and make prototypes • AO3: Analyse and evaluate 	<ul style="list-style-type: none"> • AO2: Design and make prototypes • AO4: Apply knowledge of technical principles 	<ul style="list-style-type: none"> • AO1: Identify, investigate & outline design • AO3: Analyse and evaluate
Wider reading	<p>U:\Pupil Drive\BETS\Yr11 DT\Product Design Coursework Guide 2020-2021 v2.doc</p> <p>www.technologystudent.com</p> <p>www.design-technology.info/home.htm</p> <p>https://www.bbc.co.uk/bitesize/examspecs/zby2bdm</p>		
Literacy programme	<ul style="list-style-type: none"> • Increase vocabulary with emphasis on keywords within DT. • Use of exam command words within lessons/questioning to assist/improve responses. • Written tasks responses to be modelled and/or show of exemplar work to demonstrate effective writing and also the reviewing of this writing – emphasis on different written tasks within design process. 	<ul style="list-style-type: none"> • Increase vocabulary with emphasis on keywords within DT. • Use of exam command words within lessons/questioning to assist/improve responses. • Written tasks responses to be modelled to demonstrate effective writing and also the reviewing of this writing – emphasis on different written tasks within design process. 	<ul style="list-style-type: none"> • Increase vocabulary with emphasis on keywords within DT. • Use of exam command words within lessons/questioning to assist/improve responses. • Written tasks responses to be modelled to demonstrate effective writing and also the reviewing of this writing – emphasis on different written tasks within design process.
Homework / Independent Learning Tasks	<ol style="list-style-type: none"> 1. Access to their work through pupil drive to meet set deadlines for coursework 	<ol style="list-style-type: none"> 1. Access to their work through pupil drive to meet set deadlines for coursework 2. Home revision utilizing the above links to go through core technical principles. 	<ol style="list-style-type: none"> 1. Access to their work through pupil drive to meet set deadlines for coursework 2. Home revision utilizing the above links to go through designing and making principles.
Oak Academy Links			