

14-week plan- Yr 11 Design and Technology (Product Design / Graphic products)

Week	Routine homework	NEA work	Revision topic	Resource links	Suggested tasks	Revision strategy	Revision check	Explicit Vocabulary instruction: command words	Intervention
27 January	Structured revisions – all tasks to be set on firefly	Focus - Practical – making of final prototype	Maths- Area of a Square — Wilmslow High School Core Technical Principles- industry and enterprise	Area of a Square — Wilmslow High School 3.1.1 Industry and Enterprise — Wilmslow High School	Complete the firefly task set Make cue cards on industry and enterprise	 Create cue cards/ revision cards	Score on firefly shared with teacher (markbook) Exam Q as Do now in lesson	Command words in exam questions – back of do now book for reference Fairtrade/ virtual marketing/ crowd funding/ co-operative/ automation	Thursday after school
3 Feb	Structured revisions – all tasks to be set on firefly	Focus - Practical – making of final prototype	Maths- Area of a Triangle — Wilmslow High School Core Technical Principles- sustainability	Area of a Triangle — Wilmslow High School 3.1.1 Sustainability — Wilmslow High School	Complete the firefly task set Complete the sustainability exam question	 Mind map – sustainability in do now book – highlight key words and add definitions of vocab.	Score on firefly shared with teacher (markbook) Exam Q as Do now in lesson	 6 R's / sustainability / environmental/ social/ moral/ ethical/ forest stewardship council	Thursday after school

						Share model answer to homework question			
10 Feb	Structured revisions – all tasks to be set on firefly	Focus - Practical – making of final prototype	Maths- Area volume and waste — Wilmslow High School Core Technical Principles- Production techniques	Area volume and waste — Wilmslow High School 3.1.1 Production Techniques — Wilmslow High School	Complete the firefly task set Complete table on production techniques	Table to illustrate advantages / disadvantages of CAD/ CAM And manufacturing methods	Score on firefly shared with teacher (markbook) Exam Q's as Do now in lesson	CAD/ CAM/ CNC/ advantages / Disadvantages Lean production/ mass/ batch/ one off/ continuous/ just in time	Thursday after school
HOLIDAY		Making day in the half term	Specialist Principles-	Seneca learning – task set by teacher on materials and their properties (refocus on specialism) Timbers - Timber-based materials - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize Papers and boards -	Teacher will set a task on Seneca to recap and complete quiz assignment on materials and their properties – this will be linked to your chosen specialism	Quizzing	Score on seneca shared with teacher Teacher can identify gap analysis from this data.	Timbers Polymers Paper and boards Properties of materials – physical and mechanical Finishes to materials Manufacturing processes used with different materials - Die casting	Making day Monday 17 th Feb 10am-3.30pm

				Papers and boards - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize Polymers - Polymers - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize				<ul style="list-style-type: none"> - Lathe – wood turning - Laser cutting - 3d printing - Vacuum forming - Injection moulding - Blow moulding 	
24 Feb	Structured revisions – all tasks to be set on firefly	Focus – plan of making/ documenting making process including quality control	Maths- Calculating the circumference and area of a circle — Wilmslow High School Core Technical Principles- energy generation and storage	Calculating the circumference and area of a circle — Wilmslow High School 3.1.2 Energy Generation and Storage — Wilmslow High School	Complete the firefly task set Seneca assignment on energy generation and storage Quiz Exam questions – practice question on energy generation	Complete quiz on Seneca Highlight key words and add definitions of vocab to do now book Share model answer to exam Q – long worded answer	Score on firefly shared with teacher (markbook) Exam Q as Do now in lesson	Wind power/ Fossil fuels/ finite/ non-finite/ solar/ tidal/ biomass/	Thursday after school

3 March	Structured revisions – all tasks to be set on firefly	Focus – Testing and Evaluation	<p>Maths- Calculating the surface area of a rectangular prism — Wilmslow High School</p> <p>Core Technical Principles- new materials</p>	<p>Calculating the surface area of a rectangular prism — Wilmslow High School</p> <p>3.1.3 Developments in New Materials — Wilmslow High School</p>	<p>Complete the firefly task set</p> <p>Complete table on smart and modern materials</p>	Cue cards	<p>Score on firefly shared with teacher (markbook)</p> <p>Do now exam on smart / modern materials</p>	Thermochromic/ phosphorescent/ hydrochromic/ metal foams/ precious metal clay/ PLA/ LCD	Thursday after school
10 March	Structured revisions – all tasks to be set on firefly	Focus – Response Tasks	<p>Maths- Moments of Force — Wilmslow High School</p> <p>Core Technical Principles- systems approach to design</p>	<p>Moments of Force — Wilmslow High School</p> <p>3.1.4 Systems approach to Design — Wilmslow High School</p>	<p>Complete the firefly task set</p> <p>Quiz GCSE bitesize Systems - Systems approach to designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize</p>	Video / reading/ quiz retrieval	<p>Score on firefly shared with teacher (markbook)</p> <p>Do now Q on systems approach to design in lesson- in do now book</p>	Input/ process/ output	Thursday after school
17 March	Structured revisions – all tasks to	Focus – response Tasks	<p>Maths- Ratios Quiz — Wilmslow High School</p>	<p>Ratios Quiz — Wilmslow High School</p>	Complete the firefly task set		Score on firefly shared with		Thursday after school

	be set on firefly	DEADLINE	Core Technical Principles-mechanical devices	3.1.5 Mechanical Devices — Wilmslow High School	Levers and linkages-practical task in lesson	Modelling / exam Q's	teacher (markbook) Practice questions	Levers / linkage/ cams/ first order levers/ second order levers/ third order levers	
24 March	Structured revisions – all tasks to be set on firefly	Final Printing	<p>Maths- Volume of a cube — Wilmslow High School</p> <p>Design and make principles – isometric drawing</p>	<p>Volume of a cube — Wilmslow High School</p> <p>Isometric and perspective - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize</p>	<p>Complete the firefly task set</p> <p>Watch the video and practice isometric drawing for independent practice</p>	Practice question in lesson	<p>Score on firefly shared with teacher (markbook)</p> <p>Marking of question</p>	Isometric	Thursday after school
31 March: inset	Structured revisions – all tasks to be set on firefly	Moderation of NEA by Teachers	<p>Maths- Volume of a Prism — Wilmslow High School</p> <p>Design and make principles – orthographic drawing</p>	<p>Volume of a Prism — Wilmslow High School</p> <p>GCSE D&T Question walkthrough Orthographic isometric Drawing</p>	<p>Complete the firefly task set</p> <p>Watch the video on exam question walkthrough practice orthographic drawing – sheet activity</p>	Practice exam question in lesson	<p>Score on firefly shared with teacher (markbook)</p> <p>Marking of question</p>	Orthographic-first angle projection/ third angle projection	Thursday after school

HOLIDAY									
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21 April	Structured revisions – all tasks to be set on firefly		Design and make principles – 1 and 2 point perspective drawing	Isometric and perspective - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize	Read/ Watch the video and practice 1 and 2 point perspective / test on GCSE bitesize Isometric and perspective - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize	Practice exam question in lesson	Marking of question	Vanishing point/ construction lines/ perspective	Thursday after school
28 April	Structured revisions – all tasks to be set on firefly		Design and make principles – exploded drawing	Working drawings - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize	Read/ watch / test on GCSE bitesize - Working drawings - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize	Practice question – exploded/ working drawings	Marking of question	Exploded Working drawing	Thursday after school