

16-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
19 January	NEA – making focus	NEA – making focus							Thursday after school
26 January	Structured revision – all tasks to be set on firefly	Focus - Practical – making of final prototype	<p>Maths- Area of a Square — Wilmslow High School</p> <p>Core Technical Principles- industry and enterprise</p>	<p>Area of a Square — Wilmslow High School</p> <p>3.1.1 Industry and Enterprise — Wilmslow High School</p>	<p>Complete the firefly task set</p> <p>Make cue cards on industry and enterprise</p>	<p>Create cue cards/ revision cards</p>	<p>Score on firefly shared with teacher (markbook)</p> <p>Exam Q as Do now in lesson</p>	<p>Command words in exam questions – back of do now book for reference</p> <p>Fairtrade/ virtual marketing/ crowd funding/ co- operative/ automation</p>	Thursday after school
2 Feb	Structured revision – all tasks to be set on firefly	Focus - Practical – making of final prototype	<p>Maths- Area of a Triangle — Wilmslow High School</p> <p>Core Technical Principles- sustainability</p>	<p>Area of a Triangle — Wilmslow High School</p> <p>3.1.1 Sustainability — Wilmslow High School</p>	<p>Complete the firefly task set</p> <p>Complete the sustainability exam question</p>	<p>Mind map – sustainability in do now book – highlight key words and add definitions of vocab. Share model answer to homework question</p>	<p>Score on firefly shared with teacher (markbook)</p> <p>Exam Q as Do now in lesson</p>	<p>6 R's / sustainability / environmental/ social/ moral/ ethical/ forest stewardship council</p>	Thursday after school
9 Feb	Structured revision – all tasks to be set on firefly	Focus - Practical – making of final prototype	<p>Maths- Area volume and waste — Wilmslow High School</p>	<p>Area volume and waste — Wilmslow High School</p>	<p>Complete the firefly task set</p>		<p>Score on firefly shared with teacher (markbook)</p>		Thursday after school

			Core Technical Principles- Production techniques	3.1.1 Production Techniques – Wilmslow High School	Complete table on production techniques	Table to illustrate advantages / disadvantages of CAD/ CAM And manufacturing methods	Exam Q's as Do now in lesson	CAD/ CAM/ CNC/ advantages / Disadvantages Lean production/ mass/ batch/ one off/ continuous/ just in time	
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 - Papers and boards - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize Polymers - Polymers - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize	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 <ul style="list-style-type: none"> - Die casting - Lathe – wood turning - Laser cutting - 3d printing - Vacuum forming - Injection moulding - Blow moulding 	Making day Monday 17 th Feb 10am- 3.30pm
23 Feb	Structured revision – all tasks to be set on firefly	Focus – plan of making/ documenting making	Maths- Calculating the circumference	Calculating the circumference and area of a	Complete the firefly task set		Score on firefly shared with teacher (markbook)		Thursday after school

		process including quality control	and area of a circle — Wilmslow High School Core Technical Principles-energy generation and storage	circle — Wilmslow High School 3.1.2 Energy Generation and Storage — Wilmslow High School	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	Exam Q as Do now in lesson	Wind power/ Fossil fuels/ finite/ non-finite/ solar/ tidal/ biomass/	
2 March	Structured revision – all tasks to be set on firefly	Focus – Testing and Evaluation	Maths-Calculating the surface area of a rectangular prism — Wilmslow High School Core Technical Principles-new materials	Calculating the surface area of a rectangular prism — Wilmslow High School 3.1.3 Developments in New Materials — Wilmslow High School	Complete the firefly task set Complete table on smart and modern materials	Cue cards	Score on firefly shared with teacher (markbook) Do now exam on smart / modern materials	Thermochromic/ phosphorescent/ hydrochromic/ metal foams/ precious metal clay/ PLA/ LCD	Thursday after school
9 March	Structured revision – all tasks to be set on firefly	Focus – Response Tasks	Maths-Moments of Force — Wilmslow High School Core Technical Principles-systems approach to design	Moments of Force — Wilmslow High School 3.1.4 Systems approach to Design — Wilmslow High School	Complete the firefly task set Quiz GCSE bitesize Systems - Systems approach to designing - AQA - GCSE Design and Technology Revision -	Video / reading/ quiz retrieval	Score on firefly shared with teacher (markbook) Do now Q on systems approach to design in lesson- in do now book	Input/ process/ output	Thursday after school

					AQA - BBC Bitesize				
16 March	Structured revision – all tasks to be set on firefly	Focus – response Tasks DEADLINE	Maths- Ratios Quiz – Wilmslow High School Core Technical Principles- mechanical devices	Ratios Quiz – Wilmslow High School 3.1.5 Mechanical Devices – Wilmslow High School	Complete the firefly task set Levers and linkages- practical task in lesson	Modelling / exam Q's	Score on firefly shared with teacher (markbook) Practice questions	Levers / linkage/ cams/ first order levers/ second order levers/ third order levers	Thursday after school
23 March	Structured revision – all tasks to be set on firefly	Final Printing	Maths- Volume of a cube – Wilmslow High School Design and make principles – isometric drawing	Volume of a cube – Wilmslow High School Isometric and perspective - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize	Complete the firefly task set Watch the video and practice isometric drawing for independent practice	Practice question in lesson	Score on firefly shared with teacher (markbook) Marking of question	Isometric	Thursday after school
HOLIDAY- 2 weeks	Structured revision – all tasks to be set on firefly	Moderation of NEA by Teachers on inset day	Maths- Volume of a Prism – Wilmslow High School Design and make principles – orthographic drawing	Volume of a Prism – Wilmslow High School GCSE D&T Question walkthrough Orthographic isometric Drawing	Complete the firefly task set Watch the video on exam question walkthrough practice orthographic drawing – sheet activity	Practice exam question in lesson	Score on firefly shared with teacher (markbook) Marking of question	Orthographic- first angle projection/ third angle projection	Thursday after school
13 April	Structured revision – 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	Read/ Watch the video and practice 1 and 2 point perspective / test on GCSE	Practice exam question in lesson	Marking of question	Vanishing point/ construction lines/ perspective	Thursday after school

				Revision - AQA - BBC Bitesize	bitesize Isometric and perspective - Designing - AQA - GCSE Design and Technology Revision - AQA - BBC Bitesize				
20 April	Structured revision – 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
27 April	Structured revision – all tasks to be set on firefly		Product analysis exam practice		Booklet provided with past exam question to practice		In class – CFU		
4 May	Structured revision – all tasks to be set on firefly		Work of others		Booklet provided with past exam question to practice		In class – CFU		

Structured revision will be in place all the way up to the D&T exam – 10th June 2026 , this is compulsory and all students must attend EVERY session