DRAYTON MANOR HIGH SCHOOL

Y10 GCSE Design and Technology PLC 2025-26

Exam Board: AQA

Autumn 1			
Mini Coursework NEA - woodwork	**R A G**	**Theory Content**	**R A G**
NEA section A - Identifying and Investigating design possibilities - *Context analysis and idea generation* - *Target market and user requirements*		Core - *Health and Safety* Core – *Design brief and specifications, ACCESSFM analysis* Core – *Market Research* Core – *Social impacts and society* Core – *Sustainability, power generation and the 6Rs* Core - *design approaches – iterative, user-centred, systems, modelling* Timbers/polymers/textiles - *properties, forms, components, shaping techniques, finishes*	
NEA section B - Producing a Design Brief and Specification - *How to write a design brief – summary of idea, justification of idea, target market* - *ACCESSFM specification*			
NEA section C - Generating Design Ideas - *Design styles and presentation*			
Autumn 2			
NEA section C - Generating Design Ideas - *Design styles and presentation*		Timbers/polymers/textiles - *properties, forms, components, shaping techniques, finishes* All materials – *production of materials* Core – *properties of materials* Core – *selecting materials* Core – *working with forces, motion, gears*	
NEA section D - Developing Design Ideas - *Sampling and analysing techniques to refine design ideas, modelling* - *Finalising design ideas* - *Manufacturing specification for design*			

Spring 1			
Coursework NEA	**R A G**	**Theory Content**	**R A G**
NEA section D - Developing Design Ideas - *Sampling and analysing techniques to refine design ideas* - *Finalising design ideas* - *Manufacturing specification for design*		Polymers/metal/wood/textiles - forms, *components* Polymers/metal/wood/textiles - *shaping/moulding/joining techniques, finishes* Polymers/metal/wood/textiles - *properties* Core - *Manufacturing specification* Core – *modern and smart materials, technical textiles*	
NEA section E – Realising Design Ideas - *Producing a final prototype*			
Spring 2			
NEA section E – Realising Design Ideas - *Producing a final prototype*		Core – *evaluation and analysis, manufacturing logs* Core – *user feedback*	
NEA section F – Analysing and Evaluation - *Using quality control to evaluate a product during production* - *Manufacturing specification*			

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<tr><th colspan="4">Summer 1</th></tr>
<tr><th>Practical Skills</th><th>R
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G</th><th>Theory Content</th><th>R
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G</th></tr>
<tr><td>Plastics Practical skills
- Marking out, quality control & tolerance
- Joining and shaping techniques
- Finishing</td><td></td><td rowspan="3">- Core – scales of production, technology in manufacture
- Core – mechanical systems – forces, motion, gears
- Systems – electronics and automation
- Core – energy storage and batteries
All materials recap – components, stock forms, tools, uses, properties, manufacturing techniques
- Work of designers</td><td rowspan="3"></td></tr>
<tr><th colspan="2">Summer 2</th></tr>
<tr><td>Textiles Practical Skills
- Marking out, quality control & tolerance
- Joining and shaping techniques</td><td></td></tr>
<tr><td colspan="4">Exam preparation and revision technique</td></tr>
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