

Year 10	Autumn 1 7 weeks	Autumn 2 7 weeks	Spring 1 5 weeks	Spring 2 5 weeks	Summer 1 5 weeks	Summer 2 5 weeks		
Learning Objective	Design and Technology Skills: Theory: 1. CAD/CAM 2. Scale of production 3. Quality Control 4. Production Aids 5. Just in time 6. Ergonomics/anthropometrics 7. Percentile Project 1 – Mock NEA – Clock with a 2nd function on TEAMS Investigation: Challenge analysis Design Brief Research • User profile • User needs and wants • Work of others for inspiration • Similar product Specification Design: Make: Evaluation: Research Conclusions	Design and Technology Skills: Theory: 1. Work of others 2. Work of others 3. Mechanism 4. Mechanisms – Gears 5. Mechanisms – Cam and Follower 6. Mechanism – Levers and linkages 7. Mechanism – Pulley & Belts Project 2: WOO Angle Poise Investigation Linkages Aesthetics – WOO Desk light Angle poise Design Thumbnails Card model - Development towards aesthetics and function Final design + Annotation Manufacturing specification Evaluation: Testing against Specification Feedback Collaboration Research conclusion Testing/Analysis and valuation of prototype	Year 10 Exam 1 January 2026	Design and Technology Skills: Theory: • Revision • Mock • Exam review Project 2: WOO Angle Poise Manufacture Hand tools and machinery for timber and polymers Vacuum former Laser cutter Evaluation Testing of functionality Project 3: Onshape Investigation: Design: Use of 3D software Make: 3D Printer	Design and Technology Skills: Theory: 1. Design Strategies 2. Collecting Data 3. Design Brief 4. Research Plan 5. Specification Project 2 – Mock NEA – Clock with a 2nd function on TEAMS Investigation: Further research required due to iterative approach Design: Thumbnails Range of initial design ideas using a variety of strategies to explain and present their design ideas Prototyping for development Make samples CAD Prototype on ONSHAPE Evaluation: Research conclusion and application to project Testing of against specification during development Customer feedback	1. Production Aids 2. prototypes and Development 3. Quality Control 4. Manufacturing specification 5. Manufacturing schedule Project 2 – Mock NEA – Clock with a 2nd function on TEAMS Design: Design Specification Make: Make final outcome using the full range of tools and materials available in the workshop. Evaluation: Testing of outcome against specification End of project evaluation WWW/EBI– suggested modifications	Year 10 Exam 2 July 2026	Design and Technology Skills: Theory: • Revision • Mock • Exam review Project: NEA Challenges are released on the 1 st of June. Start of GCSE NEA. Investigation • Analysis of design possibilities • Design Brief • Research • Specification
	Assessment	Homework - marked in line with the Kingsdale ESD code Mock NEA assessed against NEA A/B Participation in class Depth of knowledge/presentation. Seneca learning progress		Homework - marked in line with the Kingsdale ESD code - Seneca learning progress Creativity of ideas, match to chosen designer. Accuracy and neatness Topic Test	Homework - marked in line with the Kingsdale ESD code - . Seneca learning progress Full GCSE paper	Homework - marked in line with the Kingsdale ESD code - Depth of knowledge/presentation. Seneca learning progress GCSE CAB AO1 A&B		
Skills and AOs	Investigation A01A/B Design AO2 C/D Manufacture AO2 E Evaluation AO3 F	Investigation A01A/B Design AO2 C/D Manufacture AO2 E Evaluation AO3 F	Investigation A01A/B Design AO2 C/D Manufacture AO2 E Evaluation AO3 F	Investigation A01A/B Design AO2 C/D Manufacture AO2 E Evaluation AO3 F	Investigation A01A/B Design AO2 C/D Manufacture AO2 E Evaluation AO3 F	Investigation A01A/B Design AO2 C/D Manufacture AO2 E Evaluation AO3 F		

Year 11	Autumn 1 (7 weeks)	Autumn 2 (7 weeks)	Spring 1 (5 weeks)	Spring 2 (5 weeks)	Summer 1 (5 weeks)
Learning Objective	NEA – AO1 A/B Theory: • Re-cap Core	NEA – AO2 C/D Theory : • Re-cap Design and Make principles	NEA – AO2 D/E/F Theory : • Re-cap Timber specialism	NEA moderation in school, preparation for send off Theory: Identify and review knowledge gaps through exam practice	Final theory review and exam preparation
Assessment	See - NEA Deadlines NEA progress and acting on feedback Assessed against exam board CAB	See - NEA Deadlines NEA progress and acting on feedback Assessed against exam board CAB	See - NEA Deadlines NEA progress and acting on feedback Assessed against exam board CAB	Final moderated NEA grade. Weighting 50%	NEA COMPLETED AND SEND OFF
Skills and AOs	AO1 A&B Investigation Design Manufacture Evaluation	AO2 C Investigation Design Manufacture Evaluation	AO2 D/AO3 F Investigation Design Manufacture Evaluation	AO2 E/AO3 E Investigation Design Manufacture Evaluation	
Extra curricular	After school support on Thursday after school. Intervention sessions on Saturday and during the holiday	After school support on Thursday after school. Intervention sessions on Saturday and during the holiday	After school support on Thursday after school. Intervention sessions on Saturday and during the holiday	After school support on Thursday after school. Intervention sessions on Saturday and during the holiday	

AO1	Deadline – 14/9/2026	Challenge analysis Identification of problems Design Brief Research Specification
AO2	Deadline – Christmas 2026	Thumbnails Initial design Card Model CAD model Make Samples Planning for manufacture
	Deadline – End of Feb Half term 2027	Manufacture
AO3	Deadline – End of Feb Half term 2027	ITERATE APPROACH Conclusions Analysis and Evaluation on • Thumbnails • Prototypes • Testing against Specification • User feedback Testing of final prototype Final Evaluation on project success and next step