Plan Of Learning For The Year (Unit/Topic/Project Context)

Half Term 1:

• GCSE examination content - Product sustainability/ social issues/ products in society/ Technology push & Market pull. Puzzle projects.

Half Term 2

• GCSE examination content – Properties of materials/ material types (woods/ metals/ polymers/ textiles/ paper & board). Clock project.

Half Term 3

GCSE examination content – Developments in new materials/ SMART | Half Term 6 materials/ CAD/ CAM/ JIT manufacture/ production methods. Charity collection box project

Half Term 4

GCSE examination content – Hand tools/ power tools/ shaping techniques/ moulding/joining/treatments and finishes. Chopping board project.

Half Term 5

GCSE examination content - Mechanisms/ electronics/ stock forms/ standardised components/ assembly processes/ heat treatments. Chopping board project. Mini CAD project.

GCSE examination content - Ergonomics/anthropometrics/ looking at designers/ user needs/ market research/ product analysis/ design strategies/ inclusive design. Learning aid project.

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
 Evaluations on all Design & Make tasks including self and peer assessment On-going formative assessment during lessons by teacher Student/ teacher one-to-one discussions Half-termly teacher assessed tasks and formal assessment Regular homework and quizzing 	 equipment to design and improve the world around them. To use a range of strategies to think and design creatively when faced with problems and challenges. 	 Learning about other cultures and approaches Learning about society - past and present Working independently, in pairs and in groups. Understanding the role of individuals in a team Inclusivity in designing to accommodate all members of society Exploring potential career paths and academic options in Design/ Engineering

Common misconceptions	Connecting New Knowledge	Challenge for all
 GCSE Design 7 Technology is not 'Woodwork'. The emphasis is on design NOT craft. 	 Regular revisiting of core terminology/ vocabulary Developing skills through active implementation Applying existing understanding/ skills to new challenges Extensive use of ICT in design and manufacture 	 Core vocabulary lists and knowledge audits in each unit. Regular use of scaffolds and structured practice Clearly defined success criteria and use of student action to make progress Stretch activities built into each lesson