Y10 Cambridge Award Engineering Design

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topics	***R106: LO1*** Learn commercial production methods, quality and legislation and their impact on products and components.	***R106: LO2*** Be able to research existing products (x6 bike lights) ***R106: LO3*** Be able to analyse existing products through disassembly	***R107:*** Developing and presenting engineering designs • LO1: Generate design proposals using a range of techniques. 2D, Isometric and orthographic drawing	***R107: LO2*** Develop designs using engineering drawing techniques and annotation R107: LO3 • Use Computer Aided Design software and techniques to produce and communicate design proposals	***R108:*** 3D Design Realisation LO1: Know how to plan the making of a prototype • LO2: Understand safe working practices used when making a prototype	***LO3***: Produce a prototype of a bottle opener to set dimensions and tolerances LO4: Evaluate the success of the manufacture of the bottle opener against set criteria including dimensions and quality of finish
	End of Unit Assessment	Test papers	Project assessed out of 20 marks, focus on practical skills only	Project assessed out of 20 marks, focus on practical skills only	Test papers	Project assessed out of 20 marks, focus on practical skills only
Arts Mark						

Building on prior learning	
Enrichment within the Curriculum	
Extracurricular opportunities	
Positive impacting on personal development (SMSC)	

Preparing for the next stage of education	
Ways to support your child's learning	Praise for effort rather than being 'clever' shows them that by working hard they can always improve
Visits and trips Websites / books /papers / magazines TV/Films Blogs/ podcasts	