

Year Group	Learning Cycle 1 – Autumn	Learning Cycle 2 – Spring	Learning Cycle 3 –
Year 7 Students rotate each learning cycle to have an initial experience and gain understanding and knowledge of the subject areas within Design and Technology.	Resistant Materials – Designing to a Brief Manipulating materials safely	Food and Nutrition - Basic health, hygiene and safety. Basic food preparation and cooking skills.	Graphics/electronics- Drawing techniques Basic electronics circuits
Year 8 During year 8 students again rotate through the different Design and Technology subject areas to gain further understanding and knowledge	Resistant Materials – Designing to a Brief Manipulating materials safely Workshop machine skills	Food and Nutrition - Continuation of Basic health, hygiene and safety. Increasing repertoire of food preparation and cooking skills.	Graphics/electronics- Drawing techniques Understanding of cards boards and paper. Soldering and creating electronics circuits
Year 9 Students rotate through the Design and Technology subjects in year 9 building on prior learning before selecting an option at GCSE going into year 10.	Resistant Materials – Creating design briefs and Specifications Manipulating materials safely using a range a of hand tools and workshop machine skills	Food and Nutrition - Continuation of health, hygiene and safety practices. High risk foods. Increasing repertoire of food preparation and cooking skills.	Graphics – Colour theory Principles of design Computer Aided Design





Veer10	Engineering Forrous non	Engineering Computer Aided	Engineering Direction
reario	Engineering-Ferrous, non-	Engineering-Computer Aided	The survey of the stress of th
Students have selected their	terrous metals and alloys	Design	Inermo plastics and
option choice within			thermosetting plastics
Technology, Students gain a	Product Design - Materials –	Product Design – Computer	
more in depth understanding in	timber, plastics and textile	Aided Design	Product Design-
			manufacturing processes
a theoretical and practical way	Food – Fruit and Vegetables	Food – Cereals	
as they move through the	Dairy Products	Proteins	Food – Fats and Sugars
learning cycles			Alternative Proteins
Year 11	Engineering- NEA – Context	Engineering- NEA product	Engineering-Theoretical
Student will be studying for	given, students independently	manufacture testing and	study of design. Exam
GCSE's following the Eduqas	commence coursework	evaluation	revision
exam board specification.			
Students in Engineering, Food	Product Design - Context	Product Design - NEA	Product Design -
and Nutrition and Product	given, students independently	product manufacture testing	heoretical study of
Design commence the Non	commence coursework	and evaluation	design. Exam revision
Exam Assessment – (NEA)			
component of their GCSE which			
is worth 50% of their overall	Food – NEA 1	Food – NEA 2	Food – Food commodities
grade. They design and make			theory and revision.
products following analysis of			
tasks and conducting research.			
Year 12	Product Design-	Product Design-	Product Design –
	Metals, ferrous and non-	Timber	Plastics
	ferrous	Hardwoods	Thermo plastic
	Alloys	Softwoods	Thermosetting plastic





	Manipulating Metals.	Manufactured Boards	Manipulating plastics.
	Casting	Joinery skills	
	Machining	Manufacturing processes	
	Extrusion		
	Manufacturing processes		
Year 13	Marketing	Product Design-	Product Design-
Product Design commence the	Customer values	Manufacture of product	Materials research
Non Exam Assessment – (NEA)	Product Design-	Testing and modification	Design theory.
component of their GCSE which	Analysis of NEA task and	Evaluation	
is worth 50% of their overall	research.		
grade. They design and make	Planning manufacture		
products following analysis of			
tasks and conducting research.			

