D & T Learning Journey

Cyclo 2		Courses Design and Technology can lead design at A level, engineering contraction Design at A level, engineering contraction		in lead to Product ring courses.
 Plan of making Cutting list Review of core practical Reticute and 	Revision and GCSE Exams	Careers	Architect, product designer, civil/mechanical engineer, theatre/film set designer, carpenter, Problem solving, evaluation and reflection skills ICT literacy, collaboration, adaptability, self- management	
		Skills		
 Retrieval and revision of all content 		Real World	Creatingsolutions for eve problems	ryday practical
• Exam preparation				
	Cycle 1 • NEA Continue • CAD / communicate design ideas sketching and Computer aided • Modelling • Making	ar 1	Cycle 3 troduction of NEA contexts • Identify problem • Find client and complete profile • Generate design ideas	Cycle 2 Specialist techniques and processes Commercial processes Surface treatments
Cycle 2 • Specialist techniques and processes. • mechanical devices, forces and stresses, • communicati on of design ideas • CAD/CAM • The work of others	Cycle 3 • Modern Materials • Smart materials • Composite Materials • Systems approach to designing • Forces and momentum	Year 10 Pear	ycle 1 New and emerging echnologies Scales of production Environmental social and economic challenge Energy –Types, generation and storage.	and finishes. • Material management
	Cycle 1 Materials and their working properties. The work of others (Core) Specialist: tools and equipment, sources and origins, stock forms, equipment and processes	• Designi • Modelling teo • Health ar product a sketch	 Cycle 3 Designing, measuring, modelling, testing and marking out Modelling techniques using paper card Health and safety, use of research, product analysis, consumer needs, sketching ideas, sequencing of a process Cycle 2 Surface decoration techniques Use of tools and equipment to design products Health & safety , ergonomics in 	
 Cycle 2 Reading and following instructions, scoring folding, use of tools. Health & safety How paper is made, sources of paper, stock forms, paper sizes 	Cycle 3 • Designing to a brief • Use of hand and machine tools; work with wood	Year 8 9 9 9 9 9 9 9 9 9 9 9 1 1 9 1 1 1 9 9 1 1 9 1 9 1 9 1 9 1 1 9 1	cle 1 king basic sauces, function of redients, sparation and cooking shniques; Eatw ell guide nciples, Functions of fat in the st, energy balance urces of food od science	design and data analysis • Use of a template • Sustainability • Use of CAD/CAM
	Cycle 1 • Knife skills, baking, rubbing in, shaping, reading and follow ing a recipe • Food safety and H & S, Eatw ell guide, 4Cs nutrient functions, healthy choices		nvestigate and analyse a range of existing products evaluate their ideas and products against their ow n lesign criteria and consider the iew s of others to improve their vork	Year 6
AO1	AO2	AO3	}	AO4
Identify, investig and outline desig possibilities to address needs a wants.	ate Design and make gn prototypes that are fit for purpose. nd	Analyse and evalu design decisions a outcomes, includi prototypes made I themselves and of wider issues in de technology.	Demonstra late: knowledge and understand ng for • tec Dy • des hers ma sign and	te and apply and ling of: hnical principles signing and king principles.

