Key: Recap/Retrieval

Rigour (Vocabulary/Disciplinary knowledge/Reading) Gatsby Benchmarks

Cultural Capital/SMSC

Numeracy

Cross Curricular

Week/ Lesson	Term	Торіс	Knowledge	Skills Complex activity:
1	Autumn T1 Project 1 *SUMMATIVE ASSESSMENT	Summer Project Review	 Introduction to Robotics and CAD/CAM 	Writing genre: Be able to describe the links between Cad/CAM and Robotics. Be able to explain the positive impact robotics and cad cam has had on the industry.
2	dates TBC	Automation Lean Engineering	 Understand the development and impact of automation Understanding CAD/CAM/CNC applications in the real world Understanding the impact of Lean Manufacturing/ FMS/JIT. 	Complex activity: Apply Kaizen/Lean Engineering to a problem. (Career links to Real world solutions) Be able to respond to detailed questioning on
3		Contextual Challenge Research	 Identify key contextual areas Identify problems and potential design solutions Analyse clients' needs and wants. Analyse primary, secondary and work of others to inform design strategies. 	Writing genre:' My key designer' <mark>(<i>Literacy focus</i>)</mark>

4	Design Specification Initial ideas Initial/Developing ideas.	 Developing a client focussed specification using relevant research. Apply research and specification to produce a range of creative design ideas Understand how to effective 	Complex activity: Producing a range of design ideas (Disciplinary Knowledge) Effective use of keywords (vocabulary)
	Developing Ideas	 annotate ideas Develop a final design idea Reteach design skills) 	
6	Modern Materials Smart materials	 Recognise a range of modern materials Describe how modern materials improved functionality Define a smart material Recognise a range of smart Materials Understand how the functional properties of a range of smart materials can be changed by external stimuli Recap specification 	Complex activity: Producing a high quality 3D model (Disciplinary Knowledge)
7	CAD (3D Modelling)	 Develop independent decision-making and problem solving through iterative design. Develop a quality product using on-going evaluation Recap (CAD) 	Gatsby Career links to the manufacturing industry Using Cad in the car manufacturing factories.
8	Practical Making	Accurate recording of manufacturing stages	Writing genre: 'Writing a Manufacturing Specification (<i>Literacy focus/SMSC</i>)

9	Autumn T2	practical Making	Ongoing evaluation and iterative improvements	
10		Practical Making	Testing of alternative appropriate materials, tools and techniques	
11		Practical Making	Ongoing research and evaluation to fulfilling client needs	
12		Practical Making	Recognise how to quality assure a product	Gatsby Benchmark No.4: External Trip to Harry Potter Studios
13		SUMMATIVE ASSESSMENT (DD 2)		
14		Testing and Evaluation Improvements	 Analyse, Test and Evaluate final outcome considering specification and client needs and wants Identify potential product improvements. Suggest how to make the product commercially viable 	Complex activity: Critical Product Analysis (Literacy/SMSC)
15		Final Presentation	 Develop communication skills in presenting a final product 	Complex activity: Presentation of Final Prototype Ideas (Literacy/Oracy Focus)
16	Spring T1 Project 2 Food technology	Health and safety	 To develop and understand and be able to explain why health and safety is important in the kitchen. To develop and identify hazards and risks in a kitchen environment. To develop and evaluate the consequences of poor health and safety and suggest ways to prevent accidents. 	Literacy Learners read and scribe Recording data Forming sensory analysis Using adjectives Vocabulary building Verbal communication to make educated points and form opinions. Numeracy Timing (egg cooking) Measuring (water)

			Recording data
			Analysing data
17	Sorbet Practical	 Follow health and safety procedures at all times, demonstrating respect for self and others. Measuring and weighing ingredients accurately. Using skills and techniques effectively to produce a high quality outcome. Recap health and safety 	Literacy Reading and following methods Learners will use verbal communication to make educated points and form opinions Use of key words and technical vocabulary Sensory analysis using adjectives Numeracy Time management, using the clock Working in grams, ml, kg (conversion to oz. more able) Weighing and measuring Working with temperature Proportion of ingredients in recipes Portioning dishes Calculating dish cost and profit (extension)
18	Gluten	 Determine the relative differences in gluten content between different types of flour. Establish the impact this has on the structure of baked products. Use scientific experimentation to support conclusions. 	
19	Pasta Practical (Tagliatelle)	 Know health and safety procedures at all times, demonstrating respect for self and others. Measuring and weighing ingredients accurately. 	Follow health and safety procedures at all times, demonstrating respect for self and others.

20		Pasta Practical (Lasagne)	 Using skills and techniques effectively to produce a high quality outcome. Know health and safety procedures at all times, demonstrating respect for self and others. Measuring and weighing ingredients accurately. Using skills and techniques effectively to produce a high quality outcome. 	Follow health and safety procedures at all times, demonstrating respect for self and others.
21	Spring T2	Dish blue print	 Research nutritional needs of others. Plan dishes based on research and make justified choices. Link and explain how food science will factor in dishes Explain and justify cooking methods linked to ingredients and nutrient retention. 	Literacy Learners read and scribe Reading and contextualising, research Making justifications, using arguments Vocabulary building Verbal communication to make educated points and form opinions
22		Dish blue print continued		
23		ASSESSMENT - Practical Prepare and cook dish	 Know the health and safety procedures at all times, demonstrating respect for self and others. Know how to use equipment accurately Using skills and techniques effectively to produce a high quality outcome. 	Demonstrate the ability to follow health and safety procedures at all times, demonstrating respect for self and others. Measuring and weighing ingredients accurately.

24		Methods of cookery	 Explain the chemical reactions that occur when cooking foods via different methods. Suggest ingredients they can be used for. Examine and explain how the sensory properties and nutrition of food changes when cooked by different methods. 	Literacy Learners read and scribe Reading and contextualising Making justifications, using arguments (experiments) Vocabulary building Verbal communication to make educated points and form opinions Mathematics
25		Job roles	 Identify different job roles within the industry, both guest and non-guest facing. Know the reasons why establishments have a varied staff team, advantages/disadvantages. 	Explain the skills and qualities required to perform each job role well. Evaluate the reasons why establishments have a varied staff team, advantages/disadvantages. Gatsby Career links.
26		Introduction to GCSE Options.		
27	Summer T1	GCSE Content		
28]	GCSE Content		
29]	GCSE Content		
30		GCSE Content		
31		GCSE Content		
32		GCSE Content		
33	Summer T2	GCSE Content		
34]	GCSE Content		
35]	GCSE Content		

36	GCSE Content	
37	GCSE Content	
38	GCSE Content	
39	GCSE Content	
40	GCSE Content	