

Curriculum Map – DT year 8

	1	2	3	4
	<p>Topic Title: Engineered product - CAD / CAM Promotional Display</p>	<p>Topic Title: Developing higher level skills to progress into the Catering and Hospitality Sector</p>	<p>Topic Title: Materials Product – Maze Game</p>	<p>Topic Title: Graphics - Event Marketing</p>
Year 8	<p><u>Health and Safety</u></p> <ul style="list-style-type: none"> ○ How do I promote Health and Safety in the Engineering Workshop in an engaging way? – CFU Assessment & Homework <p><u>Design</u></p> <ul style="list-style-type: none"> ○ What new components will I need to make the torch? And how will they be connected together? ○ Who are you wanting to appeal to with your torch project? ○ How can you realise your theme as a key-ring torch that will appeal to your target market? CFU Assessment ○ Can you create a camera as a 3D solid model using the latest industrial software? Yes, you can! - Retrieval based Homework ○ Can you create your final design as a 3D solid model on Autodesk inventor? Taking design features from across your initial ideas? 	<p>Big Questions:</p> <p><u>Design</u></p> <ul style="list-style-type: none"> ○ What are the sources, types and functions of Macro Nutrients? CFU Assessment <p><u>Health and Safety</u></p> <ul style="list-style-type: none"> ○ How do we keep the kitchen free from food contamination and food poisoning? <p><u>Practical</u></p> <ul style="list-style-type: none"> ○ What are the new skills I need to learn to make Viennese Whirls? ○ What is Energy? Why do we need it? ○ What are the new skills I need to learn to make Spaghetti Bolognese? CFU Assessment - Evaluation ○ What are the consequences of over or under consumption of macro nutrients? ○ What are the sources, types and functions of Micro-nutrients? <p><u>Evaluation</u></p>	<p>Big Questions:</p> <p><u>Health and Safety</u></p> <ul style="list-style-type: none"> ○ What can you remember from Y7? What is the H&S procedures in place for new machinery? <p><u>Design</u></p> <ul style="list-style-type: none"> ○ What wood joint will be suitable for your maze game? CFU Assessment Homework ○ How can you communicate your ideas? ○ How do you use the creative features across your initial ideas to inspire your chosen design? CFU Assessment <p><u>Manufacturing</u></p> <ul style="list-style-type: none"> ○ What are the routines of the construction workshop? ○ What workshop equipment is used to complete the finger joint? ○ What workshop equipment is used to complete a mitre joint? ○ What workshop equipment is used to construct the maze element? ○ What workshop equipment is used to construct the acrylic 	<p>Big Questions:</p> <p><u>Design</u></p> <ul style="list-style-type: none"> ○ What is a Design Brief and Market Research? ○ How does Product Analysis inform the graphical design process? ○ What is a Mood Board and how does it influence our design? ○ What is Typography? ○ How do we use Sketching and Drawing Techniques in our designs? ○ What are the Paper Properties that we should consider and standard sizes? ○ How do I generate my Initial design Ideas? ○ How do I Develop my Final Design? <p><u>Manufacturing</u></p> <ul style="list-style-type: none"> ○ What processes do I need to consider in the Manufacture of my product? ○ What is the purpose of Initial Analysis and Questionnaire? <p><u>Evaluation</u></p> <ul style="list-style-type: none"> ○ How do I Evaluate the success of my products?

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<ul style="list-style-type: none"> ○ Can you create an imaginative and creative advertisement to promote your torch? You might want to include your final 3D model? <p><u>Manufacturing</u></p> <ul style="list-style-type: none"> ○ Now it is time to assemble your laser cut torch, how do we ensure that it works reliably? ○ You have learnt how to design and manufacture your torch, but what specific engineering skills have you learnt? How would we make a batch of 100 torches? – Production Plan Homework <p><u>Evaluation</u></p> <ul style="list-style-type: none"> ○ Are you happy with your completed torch? What do your peers think? Have you been able to ask members of your target market? – Live evaluation feedback <p>Can you remember all the knowledge you have gained throughout the project? – Score in assessment record <u>Health and Safety</u></p> <ul style="list-style-type: none"> ○ <i>How would we promote safety in an industrial engineering workshop?</i> – CFU Assessment & Homework 	<ul style="list-style-type: none"> ○ How do I Evaluate my catering practical's and inform the planning of my final dish? <p><u>Design & Practical</u></p> <ul style="list-style-type: none"> ○ What are the new skills I need to learn to make Swiss Roll? CFU Assessment – Time plan ○ What are the factors that contribute to Healthy living? ○ What does a healthy diet look like? ○ What are the new skills I need to learn to make cheese and onion pasties? ○ What are the new skills I need to learn to make Calzone pizza? <p>What are the new skills I need to learn to make Chicken and What are the new skills I need to learn to make Chicken and sweet potato curry?</p>	<p>lid?</p> <ul style="list-style-type: none"> ○ What finish can we apply to our maze game? CFU Assessment <p><u>Evaluation</u></p> <p>How to reflect on mid-point evaluation to evaluate final product? – Live evaluation feedback</p>	<p>How do I show my understanding of the Graphics module?</p>
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Design

- *Our designs for this project should consider manufacturing the technological display in larger quantities, what do you need to consider?*

CFU Assessment

- *How can you ensure your design can be made in larger batches?*

Manufacturing

- *How will you ensure that all the components of the Technological Display fit together?*

- *How do we create an M3 threaded hole? -*

Retrieval based

Homework

- *How do you ensure that your Technological Display will work correctly after assembly?*

Evaluation

- *Can you remember all the knowledge you have gained throughout the project? – **Score in assessment record***

- *How do you ensure you are reflecting on the success of your*

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	<p><i>technological display taking into consideration the feedback from you target market? – Live evaluation feedback</i></p> <ul style="list-style-type: none">○ <i>Example of Engineering EXAM question</i>			
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