Curriculum Map – DT year 8

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Year 8	Topic Title: Engineered product - CAD / CAM Promotional Display	Topic Title: Developing higher level skills to progress into the Catering and Hospitality Sector	Topic Title: Materials Product – Maze Game	Topic Title: Graphics - Event Marketing
	Health and Safety I4C-Communication ○ How do I promote Health and Safety in the Engineering Workshop in an engaging way? – ***CFU Assessment & Homework*** Design I4C-Communication & Creativity ○ 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?	Big Questions: Design I4C-Communication & Creativity ○ What are the sources, types and functions of Macro Nutrients? ***CFU Assessment*** Health and Safety I4C-Communication ○ How do we keep the kitchen free from food contamination and food poisoning? Practical I4C-Collaberation ○ 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?	Big Questions: Health and Safety I4C-Communication ○ What can you remember from Y7? What is the H&S procedures in place for new machinery? Design I4C-Communication & Creativity ○ 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*** Manufacturing I4C-Collaberation ○ 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	Big Questions: Design I4C-Communication & Creativity ○ 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? Manufacturing I4C-Collaberation ○ What processes do I need to consider in the Manufacture of my product? ○ What is the purpose of Initial Analysis and Questionnaire? Evaluation I4C-Critical Thinking ○ How do I Evaluate the success of my products?

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	○ Can you create an imaginative and creative advertisement to promote your torch? You might want to include your final 3D model? Manufacturing I4C-Collaberation ○ 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*** Evaluation I4C-Critical Thinking ○ 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*** Can you remember all the knowledge you have gained throughout the project? – ***Score in assessment record*** *Health and Safety* ○ *How would we promote safety in an industrial engineering workshop? –* ***CFU Assessment & Homework***	Evaluation I4C-Critical Thinking ○ How do I Evaluate my catering practical's and inform the planning of my final dish? Design & Practical I4C-Communication & Creativity ○ 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? 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?	lid? ○ What finish can we apply to our maze game? ***CFU Assessment*** Evaluation I4C-Critical Thinking How to reflect on mid-point evaluation to evaluate final product? – ***Live evaluation feedback***	How do I show my understanding of the Graphics module?

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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 you 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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	technological display taking into consideration the feedback from you target market? – ***Live evaluation feedback*** ○ *Example of Engineering EXAM question*			