

Curriculum Map – DT year 7

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Year 7	<p>Topic Title: Engineered product - CAD / CAM Torch Project</p>	<p>Topic Title: Healthy living and Planning, preparing, and producing healthy meals.</p>	<p>Topic Title: Materials Product – Pull along toy</p>	<p>Topic Title: Graphics – Pop-Up Card Design</p>
	<p>Big Questions:</p> <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 	<p>Big Questions:</p> <p><u>Health and Safety</u></p> <ul style="list-style-type: none"> ○ What does good hygiene, health and safety look like? CFU assessment homework <p><u>Design</u></p> <ul style="list-style-type: none"> ○ What constitutes a balanced diet? ○ How do we get energy? ○ What is a healthy diet? ○ What are the benefits of physical exercise? ○ How do I create a time plan? CFU Assessment ○ How well can I use seasonal produce? ○ How do we maintain healthy teeth? ○ What is the difference between an allergy and an intolerance? ○ Why do we need labels on food packaging? ○ What are the functional properties of food? <p><u>Practical</u></p> <ul style="list-style-type: none"> ○ How do we use knives safely? CFU assessment (Fruit Salad) 	<p>Big Questions:</p> <p><u>Health and Safety</u></p> <ul style="list-style-type: none"> ○ Why is health and safety important in the workshop? CFU Assessment <p><u>Design</u></p> <ul style="list-style-type: none"> ○ How do I communicate my ideas using a graphical skill? ○ How do I use graphical drawing skills to communicate my ideas? CFU Assessment <p><u>Manufacturing</u></p> <ul style="list-style-type: none"> ○ How do I use final design to create pull along train? What considerations are needed? What tools and processes are required? ○ Why is a high-quality finish required on the pull along train? Who is the finish for? How is it applied? ○ How are the components going to be assembled? How can they be fixed together? ○ What is quality control? How do we assess how well we are doing? CFU Assessment 	<p>Big Questions:</p> <p><u>Design</u></p> <ul style="list-style-type: none"> ○ How does our Design Brief and Specification impact our design ideas and why is the Design brief so important? ○ What makes the Aesthetic properties of a product so essential when designing a new product? In which ways does colour and colour theory affect the design process? ○ What are Ergonomics and Anthropometrics and how would they influence our designs? ○ How do our initial ideas, no matter how different, meet the requirements of the design brief and specification? ○ How will the creative features from your initial ideas impact your chosen design? What refinements/ changes can you make to improve your design? <p><u>Manufacturing</u></p> <ul style="list-style-type: none"> ○ How do we ensure a high level of finish on our pop-up cards? How do we ensure the

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<p>can! - Retrieval based Homework</p> <ul style="list-style-type: none"> ○ Can you create your final design as a 3D solid model on Autodesk inventor? Taking design features from across your initial ideas? ○ 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 	<ul style="list-style-type: none"> ○ How do we cook red meat safely? (Pork and Beans) ○ How do you use the ‘rubbing in’ method? (Pizza) ○ How can we make quick, flavoursome dishes? (Mexican Burritos) ○ How can we modify a recipe? (Sausage Chili) ○ How do I follow a time plan? (Chicken Kebabs) ○ What are the benefits of using seasonal produce? (Cottage Pie) 	<p><u>Evaluation</u></p> <ul style="list-style-type: none"> ○ How to use mid-point evaluation to make a trailer with a letter ensuring quality of finish is high? ○ Why is it important to evaluate a product? What purpose does it serve? How would they evaluate in industry? 	<p>net made for the envelope will be to size and fit our pop-up cards?</p> <p><u>Evaluation</u></p> <ul style="list-style-type: none"> ○ What do our peers/customers think of our final design? Why would a survey detailing customer responses be useful to a designer once a prototype has been made? <p>How do you ensure you are reflecting on the success of your pop-up cards taking into consideration the feedback from you target market?</p>
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	<p>your target market? – <i>Live evaluation feedback</i></p> <p>Can you remember all the knowledge you have gained throughout the project? – <i>Score in assessment record</i></p>			
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