

Curriculum Map – Graphics Years 9, 10 & 11

	1	2	3	4	5	6	7
	Topic Title: Introduction to graphic design	Topic Title: Trainer project - Investigation	Topic Title: Trainer project - Design and make	Topic Title: Trainer project - Evaluate	Topic Title: Material categories and properties	Topic Title: Developments in Modern Materials	Topic Title: New and emerging technologies
	Big Questions: How does the work of past and present design movements inform design? What impact have inspirational designers had on the world?	Big Questions: What is the role of research in the design process? How do designers gather and analyse user needs? How do designers inform the design of innovative, functional products that respond to user needs?	Big Questions: How do designers best share their ideas? In what ways can we review our designs to ensure we move forward with the best one? Why is it important for a designer to refer back to the design brief and specification? How do I select the right tools for the job? What are the health and safety practices in the chain of production? How do I ensure quality and accuracy?	Big Questions: How do designers successfully evaluate when creating a new product? How do I analyse and use test results? Why must we refer back to our specification and evaluate the design against it when evaluating the project?	Big Questions: What are the fundamental working properties and characteristics for different materials? How do we define materials and properties?	Big Questions: How do emerging materials contribute to innovation in design and technology?	Big Questions: How have new technologies been developed to positively impact the manufacturing industry and society?
Assessment	CW Design movement posters CFU CW Design movements and designers quiz	CW Market research task CW Design specification CFU HW Design process - Investigation	CW Initial ideas CFU CW Design process – Designing CFU HW Design process - Making	CW Evaluation and making diary CFU HW Design process - Evaluating	CFU CW Materials quiz CW Desk tidy feedback CFU HW Seneca Material properties	CW Modern & smart materials table CFU HW Seneca Development in new materials	CW Assessment exam questions CFU HW Seneca New and emerging technologies

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Topic Title: Paper and Board	Topic Title: Mini contextual challenge	Topic Title: Mechanical devices	Topic Title: Energy generation and storage	Topic Title: Electronic systems
<p>Big Questions:</p> <p>What are the sources and origins of paper and board?</p> <p>What are the characteristics and properties of paper and board?</p> <p>Why is it important that we select the right type of paper/board for a design project?</p> <p>How is paper supplied?</p> <p>What are the four terms used to describe scales of production?</p> <p>How can paper/board be destroyed under certain types of force?</p> <p>How are design templates used to ensure information is placed correctly?</p> <p>Why are surface finishes added to a completed paper/board product?</p> <p>Why is it important to recycle paper and board for the environment?</p>	<p>Big Questions:</p> <p>How do we explore a contextual challenge?</p> <p>What do we need to understand about our target market?</p> <p>How do we analyse existing products?</p> <p>What further research do we need to complete before starting to design?</p> <p>What should be included in our design brief and specification?</p> <p>How can you develop your initial ideas to further meet your specification?</p> <p>How can we produce ideas that meet the design brief and specification?</p> <p>Which of your design ideas follow your brief and specification?</p> <p>How can we use CAD to develop out ideas?</p> <p>Why is it important to model our solution before creating a</p>	<p>Big Questions:</p> <p>What are the different types of movement?</p> <p>How do the principles of levers and linkages contribute to the design of products?</p> <p>How do different types of rotary systems work?</p>	<p>Big Questions:</p> <p>What are finite resources used for?</p> <p>How can we harness alternate energies for power that are more sustainable?</p> <p>Once harnessed, how to we transfer power to our homes and businesses?</p> <p>What must a designer consider before production?</p>	<p>Big Questions:</p> <p>How do we use the input, process, and output approach to understand and design electronic systems?</p>

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		<p>final product?</p> <p>How do we produce an effective prototype?</p> <p>How do we effectively evaluate a product against the specification?</p>			
Assessment	<p>CW Information poster sources, origins and properties</p> <p>CFU Assessment paper and boards exam questions</p> <p>CFU HW Seneca Papers and boards</p>	<p>Feedback from mini contextual challenge at:</p> <p>Design brief and specification</p> <p>Initial ideas</p> <p>Development</p> <p>Final product evaluation</p>	<p>CW Cardboard model of levers and gears</p> <p>CFU HW Seneca Mechanical devices</p>	<p>CW Assessment exam questions</p> <p>CFU HW Seneca Energy generation and storage</p>	<p>CW Assessment exam questions</p> <p>CFU HW Seneca Electronic systems</p>

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	1	2
	<p>Topic Title: Contextual challenge</p>	<p>Topic Title: Revision</p>
	<p>Big Questions:</p> <p>What are the contextual challenges and expectations? What are the needs of our client/end user? What existing products link to our contextual challenge? What further research do we need to understand our design problem? What should be included in our design brief and specification?</p>	
Assessment	Marked in line with exam board assessment objectives	HW Seneca assessments Exam questions