

NEA & MOCK EXAM

Project Outline

In this unit you will use the skills acquired in cycle 5 to begin your REAL NEA. The focus will be on sections A&B

You will also be preparing for your end of year MOCK exam

Project Context

This NEA is worth 50% of your final GCSE grade, the design contexts for this is released on June 1st . In this cycle you will explore the given contexts, select one and respond to the context effectively by looking at examples and studying the mark scheme.

Learning Objectives of cycle:

- Students will understand how to analyse a context effectively, select a client and use them appropriately for their NEA
- Students will identify how to attain higher marks in both the NEA and the examination.
- Students will develop the ability to respond to examination style questions on design & make principles.



What is the NEA, why are we doing this?

- The NEA is your Non examination assessment, worth 50% of your final GCSE
- To ensure you understand the marking criteria for your NEA
- To understand the importance of a real client and how to utilise them effectively for your NEA
- To be prepared for section C in September

Week	Content	Completed?	
		Y / N	EFFORT
1&2 SECTION A	<p>Lesson 1</p> <ul style="list-style-type: none"> • Introduction to NEA and the Design Context • Create mind map around each context • Think about potential clients • Look at the mark scheme for section A <p><i>Homework 1: Pre-learning task—Material categorisation</i></p> <p><i>Challenge: Identify one property of each material given</i></p> <p><i>Further Challenge: Choose a product and explain what material you would use to make it and why</i></p> <p>Lesson 2</p> <ul style="list-style-type: none"> • Client Profile <p>Mock Preparation Starters /revision tasks</p> <ul style="list-style-type: none"> • Materials categorisation and properties • Materials stock form <p>Lesson 3</p> <ul style="list-style-type: none"> • Product Analysis <p>Mock Preparation Starters /revision tasks</p> <ul style="list-style-type: none"> • Origin of materials 		
WWW	EBI		

Week	Content	Completed?	
		Y / N	EFFORT
1&2	<p>Lesson 4</p> <ul style="list-style-type: none"> • Social and Economic design issues <p>Mock Preparation Starters /revision tasks</p> <ul style="list-style-type: none"> • Drawing Techniques • Saws for different materials <p><i>Homework 2: To complete your Social and Economic design issues research</i></p> <p>Lesson 5</p> <ul style="list-style-type: none"> • Work of Others <p>Mock Preparation Starters /revision tasks</p> <ul style="list-style-type: none"> • Maths question 		
3&4 SECTION B	<p>Lesson 6</p> <ul style="list-style-type: none"> • Design Brief • Design Specification <p>Mock Preparation Starters /revision tasks</p> <ul style="list-style-type: none"> • Specialist Techniques and Processes <p>Lesson 7</p> <ul style="list-style-type: none"> • Design Brief • Design Specification <p>Mock Preparation Starters /revision tasks</p> <ul style="list-style-type: none"> • Electronic Systems <p><i>Homework 3: Complete detailed research on these specialist techniques, you must be able to explain the process using notes and sketches</i></p> <ul style="list-style-type: none"> • Pewter casting • Vacuum forming • Laser cutting • Blow moulding • Injection moulding • Welding <p><i>Challenge: Explain what products each process would be suitable for</i></p> <p><i>Further Challenge: Explain pros and cons for each process</i></p> <p>Lesson 8</p> <ul style="list-style-type: none"> • Completion of section A&B <p>Mock Preparation Starters /revision tasks</p> <p>CAD systems in design—What are flexible manufacturing systems? What is CAD CAM?</p> <p>Lesson 9</p> <ul style="list-style-type: none"> • Completion of section A&B <p>Mock Preparation Starters /revision tasks</p> <ul style="list-style-type: none"> • Timber joints and how to draw joints in Isometric <p><i>Homework 4: Isometric Drawing task</i></p> <p><i>Further Challenge: Isometric drawing task with grid</i></p>		

Week	Content	Completed?	
		Y/N	EFFORT
3&4	Lesson 10 <ul style="list-style-type: none"> Completion of section A&B Mock Preparation Starters /revision tasks		
5&6	Lesson 11 <ul style="list-style-type: none"> Completion of section A&B Mock Preparation Starters /revision tasks <ul style="list-style-type: none"> Tessellation and material wastage Lesson 12 <ul style="list-style-type: none"> Completion of section A&B Mock Preparation Starters /revision tasks <i>Homework 5: Pre-learning task—Materials costing work sheet</i> <i>Challenge: Make your own costing question up to test a peer</i> <i>Further Challenge: Take one of your peers through your question, explain how to answer it if they get it wrong</i> Lesson 13 <ul style="list-style-type: none"> Completion of section A&B Mock Preparation Starters /revision tasks—Costing materials Lesson 14 <ul style="list-style-type: none"> Completion of section A&B Mock preparation and Mock Exam—Recap and check everything covered <i>Homework 6: Revision planning for test</i> <i>Challenge:</i> <i>Further Challenge: Write your own questions to practice responding to - what do you think will come up on the mock?</i> Lesson 15 <ul style="list-style-type: none"> Completion of section A&B Mock Preparation Starters /revision tasks– Recap and check everything covered		



LEARNING TOOLS

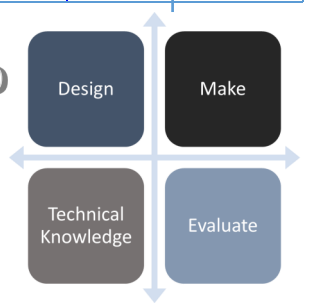
Tick when you think you are able to define the meaning of the keyword

KEYWORDS	Isometric	Tessellation	Physical property	Specification
Client	Analysis	Designer	Design Brief	

Challenge! Can you add more keywords you have covered?



Challenge!



What areas of the four key concepts for Design & Technology have you worked in during this cycle?

Circle your response

My Expected Grade				
Teacher Assessed Grade (circle)				
SBE	BE	E	AE	SAE
Comment:				

Grade		Knowledge	
		Prior	Post
8 - 9	<p>I can...</p> <p>Thoroughly explore, design possibilities directly linked to a contextual challenge demonstrating excellent understanding of the problems/opportunities.</p> <p>Identify a client that is entirely relevant in all aspects to the contextual challenge and have undertaken a comprehensive investigation of their needs and wants, with a clear explanation and justification of all aspects of these.</p> <p>Complete a thorough product analysis that clearly informs my design ideas , including products from home</p> <p>Show an excellent understanding of the impact design/my designs have on society, including; economic and social issues</p> <p>Write a fully comprehensive design brief which clearly justifies how I've met my clients wants and needs</p>		
6 -7	<p>I can...</p> <p>Explore, design possibilities directly linked to a contextual challenge demonstrating good understanding of the problems/ opportunities.</p> <p>Identify a client that is relevant in most aspects to the contextual challenge and have undertaken a good investigation of their needs and wants, with a clear explanation and justification of all aspects of these.</p> <p>Complete a thorough product analysis that clearly informs my design ideas</p> <p>Show a good understanding of the impact design/my designs have on society, including; economic and social issues</p> <p>Write a comprehensive design brief which justifies how I've met my clients wants and needs</p> <p>Write a Design Specification, with a good level of justification linking to the wants and needs of the client.</p>		
4 -5	<p>I can...</p> <p>Explore, design possibilities directly linked to a contextual challenge</p> <p>Identify a client that is relevant in most aspects to the contextual challenge and have undertaken a good investigation of their needs and wants</p> <p>Complete a product analysis that clearly informs my design ideas</p> <p>Show some understanding of the impact design/my designs have on society, including; economic and social issues</p> <p>Write a comprehensive design brief which justifies how I've met my clients wants and needs</p> <p>Write a Design Specification, with a good level of justification linking to the wants and needs of the client.</p>		