



Word Rich - Oracy, Vocabulary, Reading, Writing		Character (SMSC & Values)	Careers & Employability	lity Enrichment & Cultural Capital		Equality, Diversity & Inclusivity
<ul> <li>Tier 2/3 Vocabulary every lesson         <ul> <li>meanings and etymology</li> </ul> </li> <li>Use of texts to support         <ul> <li>reading/research</li> </ul> </li> <li>Group presentations - Oracy</li> </ul>		SMSC: Sustainability     Values taught through moral choices when designing buildings	Links to Architecture,     Interior Design, CAD     modelling	<ul> <li>Links to architecture and cross the world.</li> <li>Promotion of design con</li> </ul>		Career role models diverse in culture, race and gender
Formal Assessments (Title/Date)				Blended Learning	3	Home Learning
<ul> <li>Design and evaluation Shipping Container Home (TinkerCAD) (30 Ma</li> <li>Manufacturing of Prototype Model (30 Marks)</li> <li>End of Module Theory Test (30 marks)</li> </ul>			arks)	<ul><li>CAD modelling</li><li>Moodboard</li><li>Research</li></ul>		<ul> <li>Moodboard</li> <li>Energy Generation Research</li> <li>Competition of Tinkercad</li> </ul>
opic Knowledge and Skills		Curriculum Links and Sequencing N		National	Curriculum (including KS2)	
Sustainability  & Energy Generation  Lesson 1-4  ★ Intro to subject, careers and DT links  ★ Sustainability - Meaning in terms of design and 6 Rs  ★ Energy Generation: Fossil Fuels Vs Renewables  ★ Advantages and disadvantages of coal, oil, gas, wind, solar, hydroelectric  ★ Research and evaluation of eco homes		GCSE Link:  → 1:3 Energy Generation  → 1.13 Investigate the work of others  Wider Curriculum Links:  → Links with Geography & Science  → Cultural SMSC  Sequencing Links:  → 6 Rs across all DT and progresses in depth in Y8/9		<ul> <li>understand developments in design and technology, its impact on individuals, society and the environment, and the responsibilities of designers, engineers and technologists</li> <li>analyse the work of past and present professionals and others to develop and broaden their understanding</li> </ul>		
Responding to a design brief & Specification	★ Design brief: Sustainable shipping container homes		GCSE Link:  → 2.1 NEA Design and Develop Wider Curriculum Links:			esearch and exploration, to identify and erstand user needs

## **DT Graphics**

Lesson 5	<ul> <li>★ Responding to a specification - consider constraints, materials,</li> <li>★ Developing a mood board based on the specification and brief</li> </ul>	<ul> <li>→ Careers: (Architecture &amp; Design)</li> <li>Sequencing Links:</li> <li>→ Understanding Specification - links to All DT areas and future progression</li> </ul>	<ul> <li>identify and solve their own design problems and understand how to reformulate problems given to them</li> <li>develop specifications to inform the design of innovative, functional, appealing products that respond to needs in a variety of situations</li> <li>use a variety of approaches [for example, biomimicry and user-centred design], to generate creative ideas and avoid stereotypical responses develop and communicate design ideas</li> <li>using annotated sketches, detailed plans, 3-D and mathematical modelling, oral and digital presentations and computer-based tools</li> </ul>	
Drawing Skills Lesson 6-7	<ul> <li>★ Drawing plans</li> <li>★ Understanding scale</li> <li>★ Drawing 1 &amp; 2 point perspective sketches</li> <li>★ Rendering techniques</li> </ul>	GCSE Link:  → 1.17 Communication to present ideas  → NEA: Design & Develop  Wider Curriculum Links:  → Maths (Scale) Art (use of media)		
CAD Modelling  Lesson 8-10	<ul> <li>★ Advantages, disadvantages and used of CAD</li> <li>★ Develop basic to more complex CAD Skills</li> <li>★ Assessment: Design a Sustainable Shipping Container Home using CAD</li> </ul>	<ul> <li>→ Career: CAD technician</li> <li>Sequencing Links:</li> <li>→ Basic design skills - drawing, perspective, CAD modelling to build onto more prgressove techniques ion Y8/9</li> </ul>		
Evaluation  Lesson 10	<ul> <li>★ Assessment: Evaluation and annotation against specification</li> <li>★ Peer and self-assessment</li> <li>★ Recap skills and knowledge gained so far</li> </ul>	GCSE Link:  → NEA: Evaluation  Wider Curriculum Links:  → English (Structure of an evaluation)  Sequencing Links:  → Use of spec to evaluate	<ul> <li>test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups</li> </ul>	
Modelling & Prototyping  Lesson 11-13	<ul> <li>★ Tradition sketch modelling techniques</li> <li>★ Health and safety, use of modelling tools</li> <li>★ Properties of cards/boards, adhesives</li> <li>★ Assessment: Final model of home</li> </ul>	GCSE Link:  → NEA: Manufacture  Wider Curriculum Links:  → Maths (Measurement & Scale)  → Career: Model maker  Sequencing Links:  → Introductory making skills to progress onto Y8/9	select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture	
End of module Test & Reflection	<ul> <li>★ Assessment: End of module test (Knowledge)</li> <li>★ Review and reflection of marks</li> <li>★ Links to careers and other subjects</li> </ul>	GCSE Link:  → Core Theory Wider Curriculum Links: → English and Maths	•	

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