

Course Breakdown

Term 1	<p>Non-Examined Assessment (NEA): - AO1 -Identifying and Investigating Design Possibilities. Developing a Design Brief and specification. Theory: The role of the designer. Understanding the user's needs. Collecting and analysing data. Evaluating existing products. Environmental considerations. Social and economic challenges. NEA - AO2 - Generating and Developing Design Ideas: Create sketches and make models using card, foam and 3D CAD models. Create a technical drawing with a parts list/ Bill of Materials. Theory: The impact of new and emerging technologies on industry and enterprise. New and emerging technologies Vs Design decisions. Energy generation and storage. Planning techniques.</p>
Term 2	<p>NEA- AO2 - Manufacturing a Prototype: Independently manufacture a prototype from selected materials following your own time bound plan with quality checks. Theory: Sources, origin and properties, in depth. Stock forms and sizes. Specialist techniques.</p>
Term 3	<p>NEA- AO2 - Manufacturing a Prototype: Independently manufacture a prototype from selected materials following your own time bound plan with quality checks. Theory: Scales of production. Surface treatment and finishes.</p>
Term 4	<p>NEA - AO3 Analysing and Evaluating Design decisions and prototypes: Testing the performance of your prototype against original expectations. Evaluation of successes/struggles at every stage of the NEA. Proposals for further development of the prototype. <i>Final draft of NEA portfolio.</i> Exam revision</p>
Term 5	Final examination

Revision Resources

- WJEC Eduqas GCSE (9-1) Design and Technology – ISBN 978 1 5104 7169 6.
- www.technologystudent.com <http://www.mr-dt.com/>
- <https://www.bbc.co.uk/bitesize/examspecs/z4nfwty> (KS4 DT Eduqas)
- NEA app: <https://www.technologystudent.com/mobapps/nea1.pdf>

Revision Strategies

- *Continually discuss your progress with adults at home.*
- Meet deadlines set for NEA and theory assignments. Submit work on Teams.
- Use the subject resources on Teams and the websites listed.
- Use the evidence tracker sheet for the NEA portfolio.

Intervention/Catch up Sessions and Support

Catch up session are nominally on Friday 3-4pm. Please book this with Mr Smout. If you fall behind then you will be invited.. From term 3, most students will want to book in to work on the manufacture of their prototype.