

Achieving Success – Subject Specific Tips

Subject	Design and Technology: Resistant Materials	Exam Board	AQA
Class and Homework Expectations			
Students should bring the following items each lesson • Ensure design equipment (such as pencils) are brought to every lesson Student expectations • Come to the lesson ready to participate • Work purposefully and conscientiously in lesson time • See your teacher if you are absent from a lesson to ensure you catch up on missing work • Complete and submit all home learning • Revise for all examinations			
Scheme of work			
Year 10 A series of key focused tasks designed to develop knowledge, skills and understanding Project 1 Focus on Timbers - Storage Box Project Project 2 Focus on Polymers -Clock Project Project 3 Focus on Metals -Pewter keyring Assessment criteria: • Home learning • Producing a design brief and specification • Designing • Making • Analysing and evaluating • Examinations		Year 11 Work on Non exam Assessment Which is a substantial design and make task Assessment criteria: • Identifying and investigating design possibilities • Producing a design brief and specification • Generating design ideas • Developing design ideas • Realising design ideas • Analysing & evaluating • Contextual challenges to be released annually by AQA on 1 June in the year prior to the submission of the NEA • Students will produce a prototype and a portfolio of evidence • Work will be marked by teachers and moderated by AQA	
Assessment objectives			
AO1 Identify, investigate, and outline design possibilities to address needs and wants.	AO2 Design and make prototypes that are fit for purpose	AO3 Analyse and evaluate: • design decisions and outcomes, including for prototypes made by themselves and others • wider issues in design and technology	AO4 Demonstrate and apply knowledge and understanding of: • technical principles • designing and making principles
Assessment			
Component 1 Paper 1 Written exam in summer, 2 hours, 100 marks and contributing to 50% of GCSE. Three sections Section A – Core technical principles (20 marks) Section B – Specialist technical principles (30 marks) Section C – Designing and making principles (50 marks)			
Component 2 The Non-exam assessment will contribute towards 50% of the student’s overall mark. The NEA project in its entirety should take between 30-35 hours to complete and consist of a working prototype and a concise portfolio of approximately 20 pages of A3 paper, equivalent A4 paper or the digital equivalent.			

How to do well in the subject at GCSE

- Attend all lessons and catch up with any work missed by seeing your teacher
- Keep your exercise book up to date and work on the feedback given by your teacher
- Students must keep up to date with their NEA and meet deadlines
- Practicing past paper questions
- Attend any additional sessions outside of lesson time

Support Available

- Revision classes
- Revision guides available to students
- Interventions in Year 11
- Use of Teams
- Internal examinations to provide practice and feedback on exam technique
- Revision materials to help prepare students for the examinations

How parents could help support

- Please check your son or daughter is keeping it up to date with coursework and preparing for exams
- Check they are doing homework each week
- Help them by checking their understanding prior to test/mocks etc
- Encourage them to attend clubs after school

Helpful websites or resources

- <https://www.bbc.co.uk/bitesize/examspecs/zby2bdm>
- <https://www.technologystudent.com/>
- <http://www.mr-dt.com/>
- <http://www.design-technology.info/home.htm>