

St Gabriel's

Roman Catholic High School
A designated specialist college for science



Learn
Love
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Year 10 Resistant Materials Mock Exam Revision List

The following list will give you a reminder of the topics we have covered in class and therefore **will be** on your Mock Exam. To help with your revision it is important to use your notes in your red folder, the notes and powerpoints within your school network account as well as subject websites.

www.technologystudent.com

www.bbc.co.uk/bitesize

The Design Process

Design Brief	Stating a problem that needs to be solved
Research	Market research, Questionnaire, Letter to companies, Looking at and Analysing similar products.
Specification	A list of features that a product must have, must do or must be.
Initial Ideas	First design ideas
Final Idea and Development	How a chosen idea is to be made
Planning	Stages of making
Evaluation	What you and potential customers think of your design / project.

Material Knowledge and Properties

Timber	Hardwoods	
	Softwoods	
	Manufactured boards	
Metal	Ferrous	
	Non ferrous	What are they? What are the differences?
	Alloy	Examples of each
Plastics	Thermoplastic	
	Thermosetting plastic	

Joining Methods and Finishes

Woodworking joints - Can you name them and give advantages?

Finishes for each material, Varnish, Chrome plating etc..

Production Methods and Processes

Mass, Batch, one off and continuous production. - What are the differences?

Vacuum forming, Injection moulding - Advantages, materials used?

The use of jigs and templates

The use of the drill stop

Working to a tolerance and British Standards

Mechanisms

Cams, Levers, Linkages and gears

Drawing Techniques

Isometric, Oblique, Orthographic and Cross Sections

Visit www.technologystudent.com for revision exercises

