

GCSE Resistant Materials Revision plan 2009 – Date of exam 1st June 2009

W k	Date	Activity	Homework/Extension work to be completed to support your revision/ improve your chances of achieving target grade.	Keywords	Resources Textbooks Web links Revision Guides Engage Revision
1 D	19 th March	Contents page - Title page - Bibliography Exam paper -complete the questions.			
1 S	20 th March	Introduce Exam prep sheet and revision programme - discuss Mind map areas of revision to be covered - discuss.	Find images of a wide variety of recycling bins - create an A3 moodboard with images found - required 26 th March	Environment Recycling Mechanisms	www.homerecycling.co.uk www.ware4.co.uk www.nowrecycle.co.uk www.officebins.co.uk
2 D	26 th March	Product Analysis - What is it? 1. Group task - analyse class examples 2. Select 3 different images from moodboard - thoroughly analyse each image. Discuss improvements that could be made. Materials - Identifying a variety of different materials by their description and use.	Identifying materials and their properties. P40-44	Purpose Function Target Market Aesthetics Manufacture Materials Environmental issues	Product Analysis ex www.technologystudent.co.uk Lonsdale Revision Guide: P42-44 P46-48, P50-51
2 S	27 th March	Properties of Materials 1. Material properties - match property & correct description 2. Using knowledge from previous lessons		Strength Elasticity Plasticity Ductility Malleability	GCSE D&T for AQA Resistant Materials. P44 -51

				Hardness Toughness Durability	
3 D	2 nd April	Design Requirements/Design Specification Read through & discuss sheets. 1. What other questions should a designer ask? 2. Write own design specification points - select the five most important	Complete three different design ideas for a recycling bin. Due 23 rd April.		Exam question.
3 S	3 rd April	Inset Day - End of Term 4			
4	Easte r Hols		Read through the Design and Market influences & answer the quizzes to test your knowledge.	Cultural Society Health & Safety Legislation Moral Issues Product Analysis Safety for the Consumer	www.engagerevision.co.uk
5	Easte r Hols		Test yourself on the Woods, Metals & Plastics quizzes in the Materials & Components section	Manmade Hardwoods Softwoods Ferrous Non-Ferrous Thermoplastics Thermosetting	www.engagerevision.co.uk

6 D	23 rd April - Start of Term 5	Manufacturing Processes - Steel pedal bin/HDPE recycling bin - complete the tasks on the sheets. Manufacturing plastics in quantity	Evaluate & Plan Construction of your chosen design using HW set 2 nd April - exam question. Due 30 th April	Strong Hard wearing Rust Pigmented Recyclable	www.technologystudent.co.uk GCSE D&T for AQA Resistant Materials P96-97
6 S	24 th April	Mechanisms - compare the two mechanisms, complete exam question.		Levers	www.technologystudent.co.uk
7 D	30 th April	Ergonomic Considerations - complete the tasks. Vinyl cutters - Demonstration. Discuss		Input Process Output.	www.technologystudent.co.uk
7 S	1 st May	CAD/CAM 1. Using CAD when designing 2. What is CAM? 3. Advantages & Disadvantages of CAM	Read through the info on bending metal, blow moulding & injection moulding in Materials & Components & complete the quizzes.		www.engagerevision.co.uk GCSE D&T for AQA Resistant Materials P108-113 - pupil task sheets.
8 D	7 th May	Heat Processes - Brazing & welding		Permanent Clean fit	GCSE D&T for AQA Resistant Materials P 82 - 83
8 S	8 th May	Tools & Processes - Correctly identify tools and the process in which they are used.	Complete quiz on Selecting Materials - Mechanical Properties section		www.engagerevision.co.uk
9 D	14 th May	Scales of production - What products are made using the variety of methods available commercially?		One off Batch Continuous Mass	www.engagerevision.co.uk Exam Questions Lonsdale Revision Guide: P31 - pupil task sheet.

9 S	15 th May	Finishing & Finishes - What can be applied to protect your products function & maintenance?		Abrasives Applied Finishes Self Finished	GCSE D&T for AQA Resistant Materials P104-105
10 D	21 st May	Environmental issues in Design - The Environmental issues that affect the design, manufacture and disposal of products.		Disposal Responsibility Damage Sustainable Renewable Biodegradable	Exam Questions GCSE D&T for AQA Resistant Materials P36-37
10 S	22nd May	Last check through of revision folder, read through notes. Exam prep and check - make sure you have everything you need. Last minute questions. GOOD LUCK!			