Bideford College Technology Faculty: Resistant Materials Key Stage 4 Progress Matrix

In order to get a grade G at GCSE you must be able to:	**In order to get an F-E Grade at GCSE you must be able to:**	**In order to get a D-C grade at GCSE you must be able to:**	**In order to get a B-A grade at GCSE you must be able to**	**In order to get a A*grade at GCSE you must be able to**
Rm1.1: recall the main material groups. Metal, plastic, composite materials and timber.	Rm2.1: recall the main materials groups and their subdivisions and describe their basic properties.	Rm3.1: recall a wide range of materials explain why their basic properties make them a suitable choice.	Rm4.1: recall and explain in detail the complete range of materials and apply relevant knowledge.	Rm5.1: apply relevant knowledge of a complete range of materials and their properties.
Rm1.2: demonstrate basic understanding of design context with some analysis of other products or systems.	Rm2.2: provide a design criterion which reflects most of the analysis undertaken.	Rm3.2: provide a design criteria using analysis undertaken. Target market for the product identified.	Rm4.2: provide clear and specific design criteria. Relevant products or systems are analysed.	Rm5.2: discriminate when selecting and acquiring relevant research that promotes originality in design.
Rm1.3: produced a simple manufacturing specification which is general in nature.	Rm2.3: provide a limited manufacturing specification which reflects the most obvious features of analysis.	Rm3.3: complete a specification using aspects of the analysis. Client feedback taken into account.	Rm4.3: take into account the implications of a wide range issues, when developing specification.	Rm5.3: provide a detailed and justified product/manufacturing specification .
Rm1.4: generate ideas with guidance.	Rm2.4: generate and evaluate a basic design idea and develop a simple design solution.	Rm3.4: provide design ideas which show creativity and further development using CAD modelling.	Rm4.4: provide imaginative ideas which demonstrate some creativity and take into account recent research.	Rm5.4: demonstrate imaginative and innovative ideas, showing originality & take account ongoing research.
Rm1.5: demonstrate some evidence of testing against the specification.	Rm2.5: show some reasoning for testing without modification of the proposed solution.	Rm3.5: provide good development work with a variety of techniques and modelling using CAD if appropriate.	Rm4.5: select appropriate materials and components with full regard to their working properties	Rm5.5: demonstrate work through developed through experimentation with a wide variety of techniques.
Rm1.6: produce a partly complete outcome or one that uses a basic level of finishing skills.	Rm2.6: produce an outcome which is largely complete with a basic level of making and finishing skills.	Rm3.6: outcome shows high levels of demand. Quality control checks applied broadly but superficially.	Rm4.6: produce an outcome which utilises good making skills, appropriate tools, materials & technologies.	Rm5.6: work independently to produce an outcome which has the potential to be viable for a target market.
Rm1.7: present coursework sheets are with a title.	Rm2.7: present a basic design folder in which Ideas and decisions are communicated at a simplistic level.	Rm3.7: present a design folder which includes mostly appropriate material.	Rm4.7: present coursework sheets coherently and developed in terms of research and product development.	Rm5.7: communicate in a clear and coherent manner with appropriate use of technical language
	Rm2.8: present coursework sheets in a tidily and consistent format.	Rm3.8: present coursework sheets (research and development) which are annotated and explained.		