What do students need to understand about Product Design as a discipline?

 Designers and craftsmen work towards a clients design brief and specification.

 Mistakes are positive and are encouraged, solving problems through resilience is key.

Iterative designing refines ideas and final products.

Why is the Product Design curriculum at MRC important?

Our curriculum aims to:

- provide students with skills and knowledge to fulfil a variety of careers.
- Encourage students to learn from their mistakes.
- Allow students to better understand modern technology.

The overall outcomes:

 A life-long love and appreciation of Product Design.



- understanding the career choices available to them after Design & Technology.
- Problem solving through iterative design and making.

Problem solving
Core subject knowledge
Analysing existing products
Market research
Technical drawing skills
Freehand drawing skills
Refining ideas
Prototype card modelling
Adaptations and improvements
Understanding materials and processes
Mastering tools and machining
Evaluating successes

Life cycle assessment

Iterative Designing

A circular design process that models, evaluates and improves designs based on the results of testing

Product Design

Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Workshop	Product analysis	Product analysis	Model airplane	Non-exam assessment	Design movements	Client based project
health and safety				Preset set of	styled Lighting	research
	Material	Timber joints	Storage prototype	question topics		Client
Understanding	properties and				Architecture model	based project designing
workshop tools and	identification	Mechanical toy design	Pewter casting	Continuation		
machinery				of investigation section	Start of research	Client based
	Isometric drawing	Mechanical Toy making	Passive amplifier		for Client based project	project making
Product analysis				Designing products -	self chosen	
	Two point perspective	Year 9	Investigation section	Technical drawing		Client
Isometric drawing	drawing	Option choice	for Non-exam		Exam -	based project evaluatio
		(summer term)	assessment	Making a prototype	Theory of product	n
Timber identification	Computer			or working model -	design	
	aided design and	Mini non-	Exam - Theory of	Processes and materials		Exam -
Block robot designing	manufacturing	exam assessment	product design			Theory of product
		project		Evaluation of project		design
Wooden	Desk Organiser					
Block Robot making	designing	Research/ design/		Exam -		
		make/ evaluate		Theory of product		
	Desk Organiser making			design		