

The Design Need	Design Brief



Injection moulding, injection moulding tools, materials and products



Diagrams		How it Works!
Advantages and disadvantages of injection moulding.		
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Industrial Technology		Injection Moulding Kit - Section 2 : Research - Injection Moulded Products						
Plastic Product -	Plastic Product -	Plastic Product -	Plastic Product -					
What is it made from?	What is it made from?	What is it made from?	What is it made from?					
Plastic Product -	Plastic Product -	Plastic Product -	Plastics used for injectiion moulding.					
What is it made from?	What is it made from?	What is it made from?						

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🐞 Industrial Technolog	ν		Inje	ction	n Mo	uldir	ng Ki	t - S	Secti	on 2	: Research - Surveys
Question	Choices	Names								Totals	Charts
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		_		_							
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		How it works]			How it works	
		Good Points	Bad Points	1			Good Points	Bad Points
			_					
How it works		How it works			How it works		Sum	mary
Good Points	Bad Points	Good Points	Bad Points		Good Points	Bad Points		
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Injection Moulding Kit - Section 2 : Initial Specification

Specification Points	Reasons	
1		
2		
3		
4		
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8		
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10		
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Injection Moulding Kit - Section 2 : Initial Ideas - Research









Injection Moulding Kit - Section 2 : Initial Ideas - Research









How it works		
Materials which could be used to make the parts:-		
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How it works		
Materials which could be used to make the parts:-		
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Injection Moulding Kit - Section 3 : Evaluation of Ideas

Specification Points	Idea1	Idea 2	Idea 3	Idea 4	L	I am going to choose idea _ because -

Injection Moulding Kit - Section 4 : Material and component selection

Component/Part	Material	Description/Properties	Function in Product	Production Method

Process	Quality Control Methods	Suitable for Batch Production		

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How my product and its components would be made in a factory by batch production methods:-	How quality control methods will be used in the production of my injection moulding tool in the workshop.
How jigs and templates would be used to batch produce some of	How quality control methods would be used in the production of
the parts.	my injection moulding tool if it were to be batch produced.



Model Making - How I made the model (including materials, tools and machines used) -	Ιſ	Photographs	
What worked?			
What went wrong?			
What changes did I make to my final design idea as a result of model making?			



Materials Used	Manufacturing Processes?	
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Injection Moulding Kit - Section 3 : Final Specification

Specification Points	Reasons	
1		
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Part/Component	Quantity	Length	Width	Thickness	Material	Cost





Injection Moulding Kit - Section 6 : Evaluation against specification

Specification Points	How my Product compares	1 2	2 3	4	5	
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Problems with Making	Solved By	
		How could I have made better use of time, materials and components
Possible improvements as a resul	t of testing and evaluation -	

How testing was carried out	F	Photographs of testing and results.
Results of testing.		
What did the testing tell me?		
Maintaining quality of the Product during batch production?		