Situation

You are required to design and make a Clamping Device that will be quick to apply and release.

Points to consider ,in relation to Assessment Objective 1

- research should be carried out into the process of clamping and its wide commercial application;
- candidates should carry out experiments and trials of a range of clamps.
- candidates should ensure their Clamping Device design is suitable and able to secure plasic with a drilling jig held above.
- the design specification should be appropriate to the application of clamping.
- The product should take into account how repeated use and accuracy can be assured;
- candidates should identify and collect appropriate data from the investigation, analysis and evaluation of existing similar products.

Brief

Name: No:

	Industrial Technology	Clamping Device	Task Analysis	
Ц	Warren Comprehensive School - 12111		Name:	No:

	Industrial Technology		Clamping Device	Research – Existing	Products	
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	Industrial Technology		Clamping Device	Research	Clamps		}
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$\overline{}$	Industrial Technology	Clamping Device	Rese	earch – Existing Products	-
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	Industrial Technology	Clamping Device	Resear	ch Experime	nt	
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Industrial Technology	Clamping Device	Research:	Tools & Equipment that apply force	
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	Industrial Technology	Clamping Device	Research:	Mechanisms	
Щ	Warren Comprehensive School - 12111		Name:		No:

	Industrial Technology		Clamping Device	Research:	Survey	
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Щ	Warren Comprehensive School - 121	11		Name	:	No:

Industrial Technology		Clamping Device	Research Summary	
Warren Comprehensive Sch	ool - 12111		Name:	No:

Industrial Technology	Clamping Device	Design Specification	
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—[Industrial Technology		Clampin	g Device	Ini	itial Ideas			
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 Industrial Technology		Clamping Device)	Initial Ideas		
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Industrial Technology	Clamping Device	Selected Design Idea	
Details:			
Materials:			
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Industrial Technology	Clamping Device	Development of chosen Idea	
Details:			
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	Industrial Technology		Clamping Device	Development of chosen Idea	
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dustrial Technology		Clampin	g Device	Evaluating Idea	s against the Design Specification
Specification Point	Idea 1	Idea 2	Idea 3	Idea 4	The design that fulfils most of the criteria is:
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Warren Comprehensive School - 12111

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	Industrial Technology		Clamping Device)	Development	
	Materials:			Method of p	roduction:	
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Industrial Technology	Clamping Device	Rough Drawing – Final Design						
This sheet shows rough sketches of the final product. It Includes dimensions, details of individual parts and how they might fit together and materials to be used.								
Warren Comprehensive School - 12111		Name:	No:					

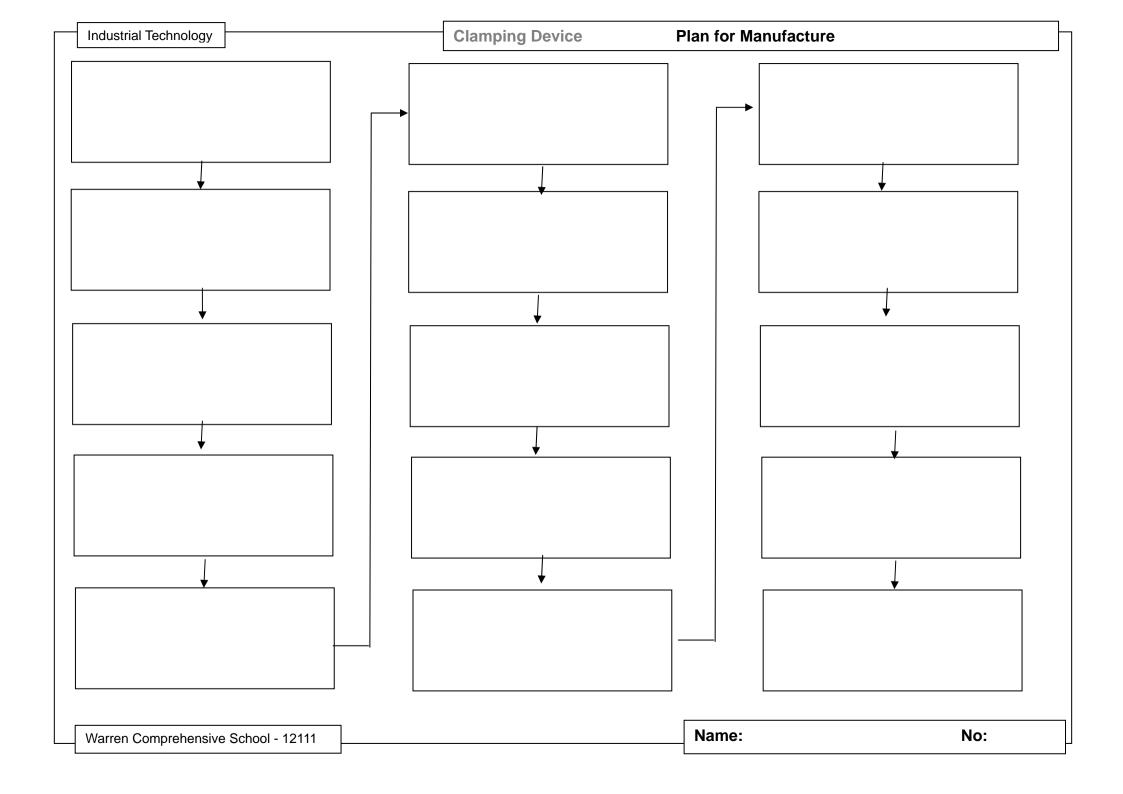
\dashv	Industrial Technology		Clamping Device	Final Design	
	 3D drawing Exploded diagral Orthographic dra Finishing	m awing			
[Warren Comprehensive	School - 12111		Name:	No:

Industrial Technology	Clamping Devi	ce F	inal Specification	
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Industrial Technology Clamping Device Cutting List

Part	Quantity	Length	Width	Thickness	Material	Cost

Name: No:



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	Industrial Technology	Clamping Device	Testing	
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	Industrial Technology	Clamping Device	Modifications and Improvements	
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Industrial Technology	Clamping Device - Section:	Photo Gallery	
Warren Comprehensive School - 12111		Name:	No: