

POLYMERS TOOLS AND EQUIPMENT

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'WORKING WITH POLYMERS' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

https://www.technologystudent.com/mobapps/processing_polymers1.pdf

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

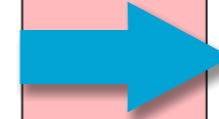
**ARE YOU READY?
USE THE MOBILE App!!**

1

NAME THE MACHINE SEEN IN THE OPPOSITE BOX AND DESCRIBE ITS TYPICAL USE.

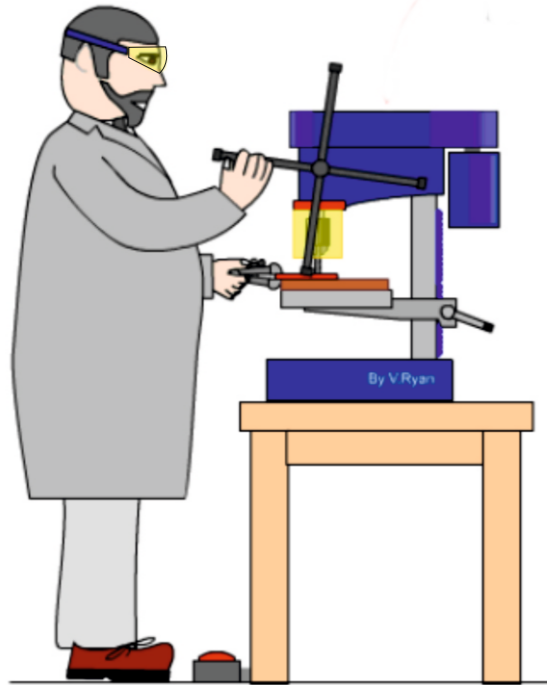
NAME: _____

DESCRIPTION: _____



2

DESCRIBE SAFETY FACTORS RELATING TO THE DRILLING MACHINE SEEN BELOW.



3

NAME THREE TYPES OF DRILL BITS, USED WITH THE DRILLING MACHINE.

NAME: _____

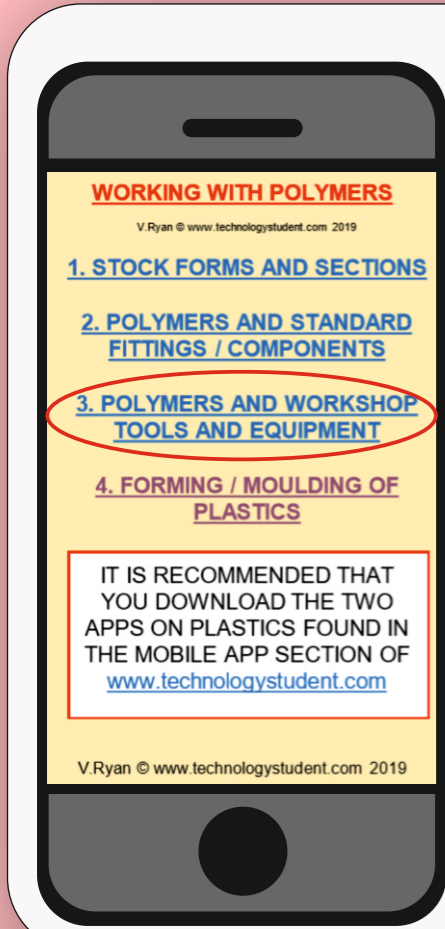
NAME: _____

NAME: _____



PASTE AN IMAGE OF EACH OF THE DRILL BITS HERE.

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1 EXPLAIN THE DIFFERENCE BETWEEN A BENCHTOP DRILL AND A MACHINE DRILL.

NAME A VICE OFTEN USED TO HOLD WORK IN THE HAND, WHEN DRILLING.

2 LIST SAFETY FACTORS THAT APPLY TO THE USE OF A MACHINE DRILL.

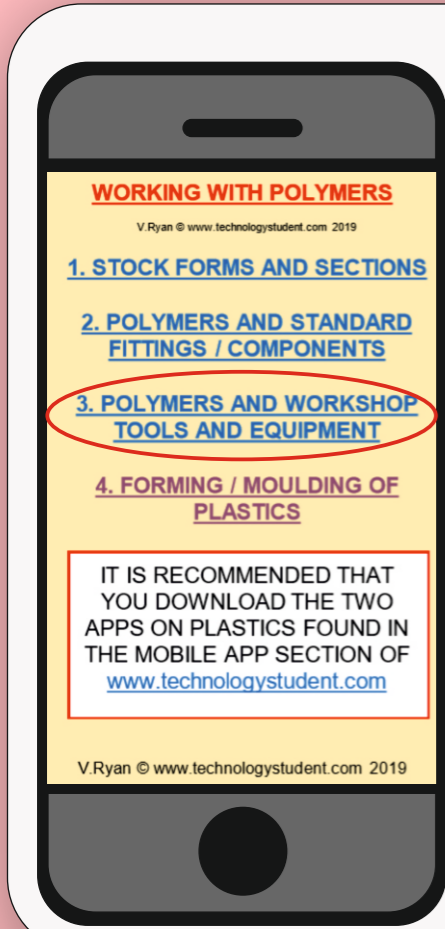
3 IN THE SPACE BELOW, SKETCH A HACKSAW. WRITE SOME FACTS ABOUT THE HACKSAW AND ITS BLADE.

4 WHAT IS THE FUNCTION OF A BUFFER / POLISHING MACHINE? HOW IS IT USED?

5 PLACE A TICK or CROSS ALONGSIDE THE DRAWINGS SHOW CORRECT / WRONG USE OF THE BUFFER.

	TICK OR CROSS HERE

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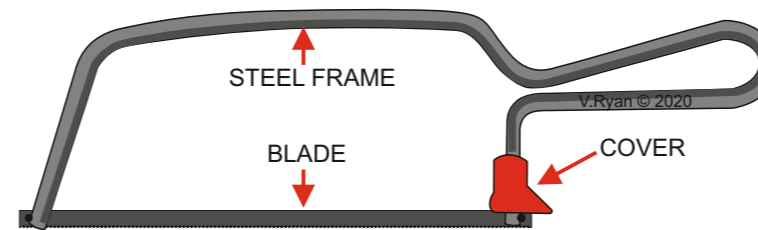
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1 WHEN IS A JUNIOR HACKSAW USED?



2 HOW IS A JUNIOR HACKSAW BLADE CHANGED?

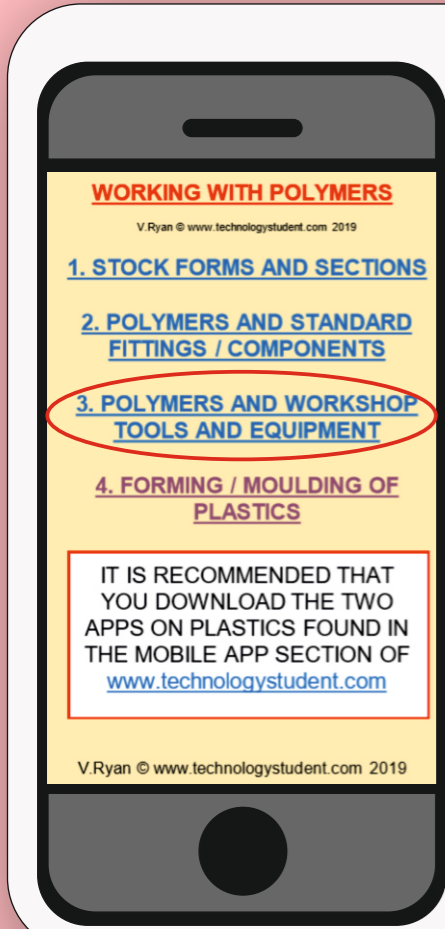
3 COMPLETE THE TABLE REGARDING JUNIOR HACKSAW BLADES, ADDING THE MISSING INFORMATION.

TEETH PER INCH (25mm)	SUITABLE FOR CUTTING
	LARGE SIZES, ALUMINIUM AND OTHER SOFT METALS.
18 TPI	
	FOR CUTTING STEEL PLATE UP TO 5/6mm.
32 TPI	

4 WHEN IS A CENTRE PUNCH NEEDED AND HOW IS IT USED?

SKETCH A CENTRE PUNCH IN THE SPACE BELOW.

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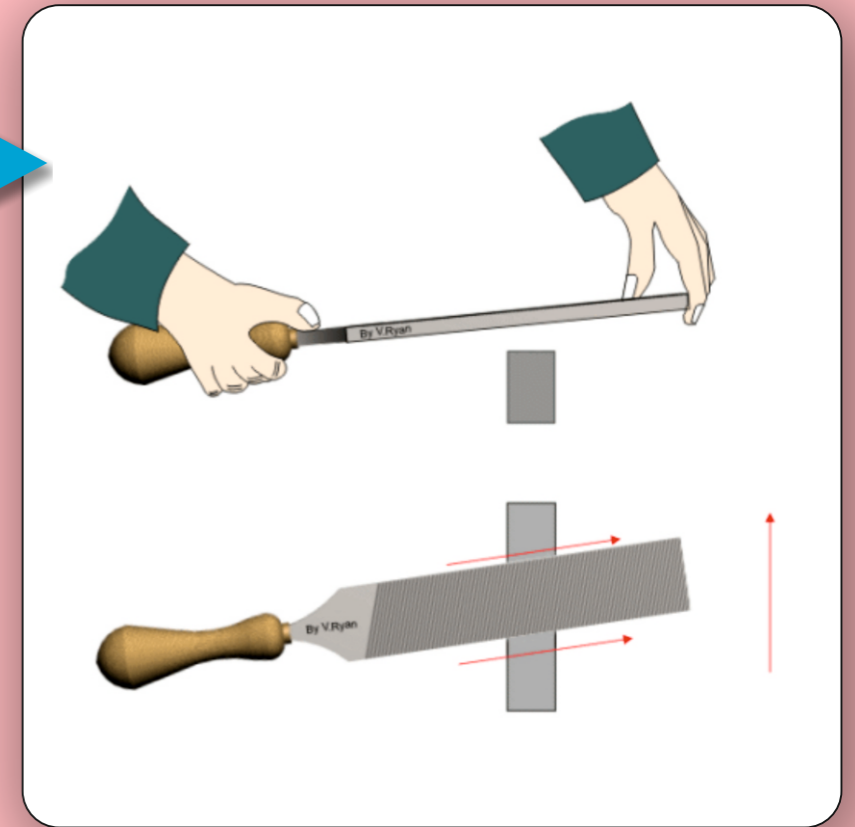
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**ARE YOU READY?
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1 DESCRIBE THE TECHNIQUE CALLED 'THROUGH FILING'. USE THE DIAGRAM OPPOSITE FOR REFERENCE. (Using a hand file)



2 'DRAW FILING' FOLLOWS 'THROUGH FILING'. DESCRIBE THIS TECHNIQUE AND INCLUDE A SKETCH.

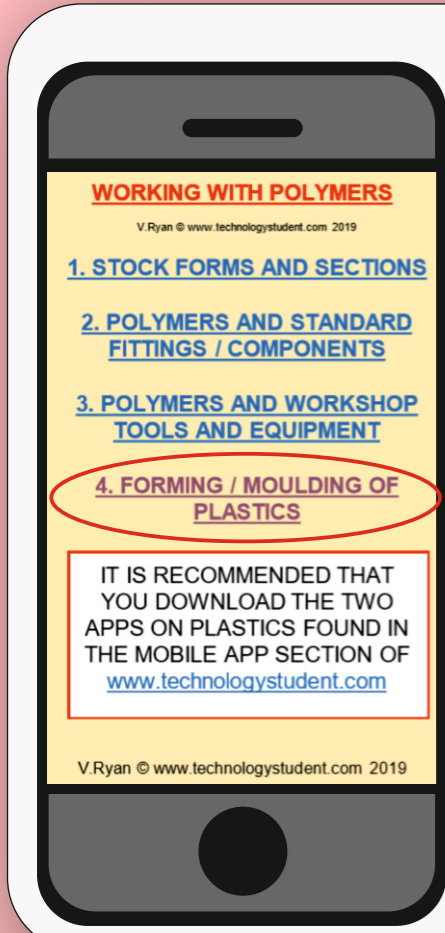
<u>SKETCH</u>	<u>DESCRIPTION</u>

3 A DISK SANDER IS SHOWN BELOW. ANSWER THE QUESTIONS IN THE NEXT BOX.

WHY IS EXTRACTION REQUIRED FOR THE DISK SANDER?

BRIEFLY, DESCRIBE THE DISK SANDERS COMMON USE IN A WORKSHOP?

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FORMING AND MOULDING OF PLASTICS

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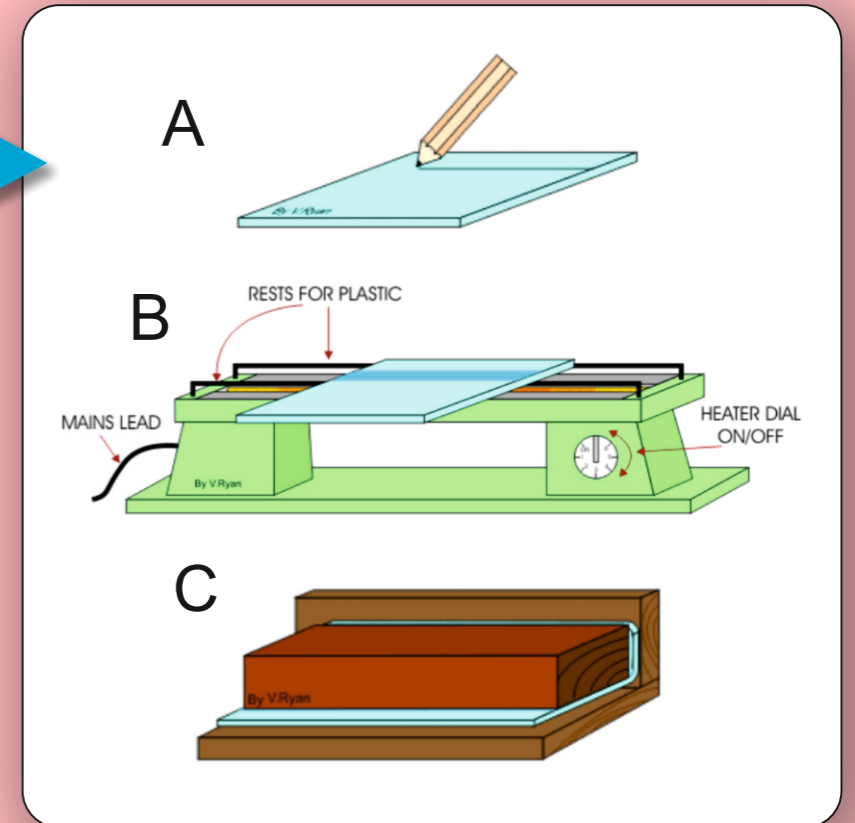
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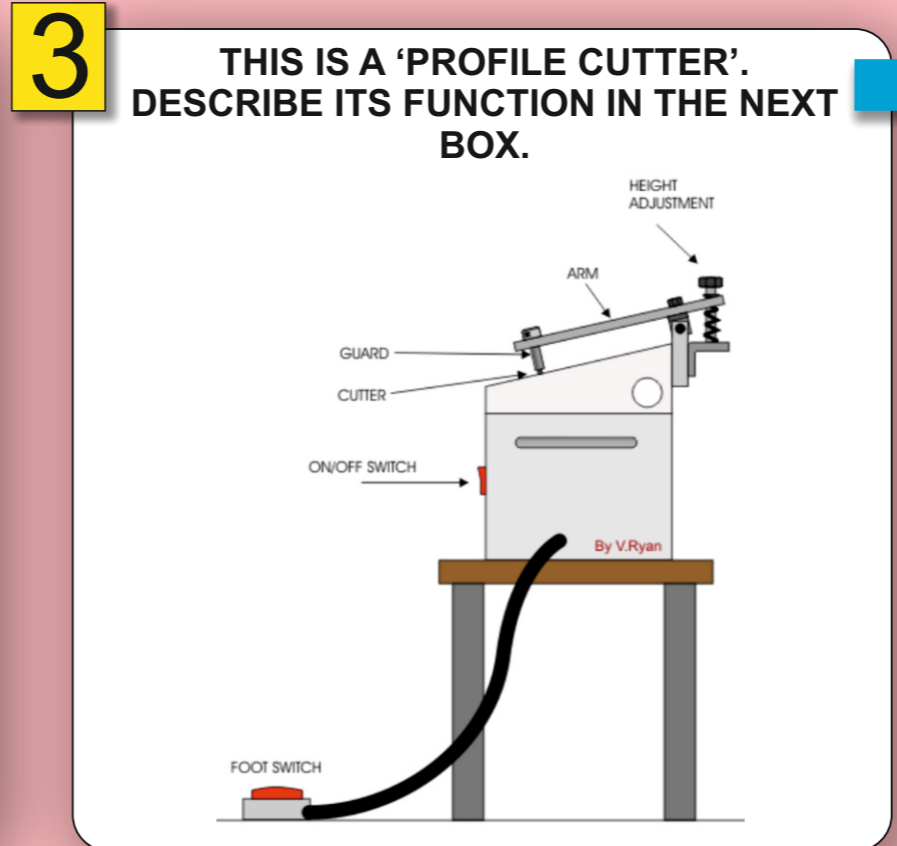
**ARE YOU READY?
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1 NAME THE EQUIPMENT AND DESCRIBE THE PROCESS SEEN OPPOSITE.
You can use the diagrams for reference.



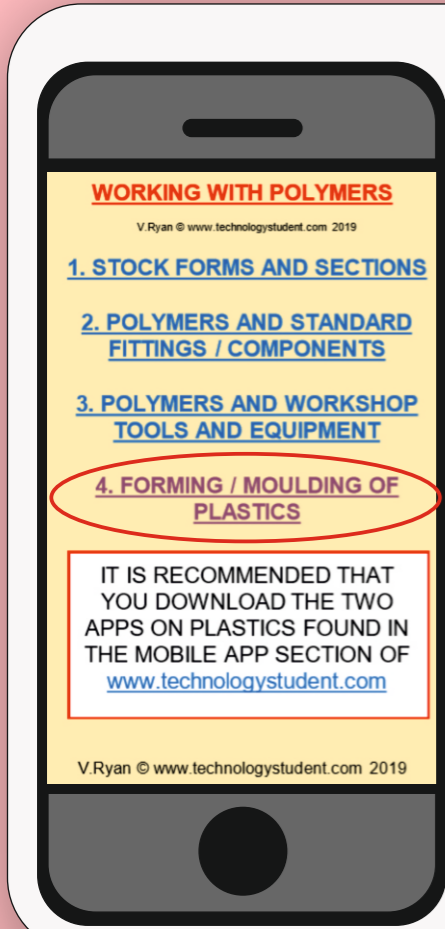
2 WHAT IS VACUUM FORMING? DESCRIBE THE PROCESS.
Include a sketch and notes.

SKETCH	DESCRIPTION
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YOUR DESCRIPTION.

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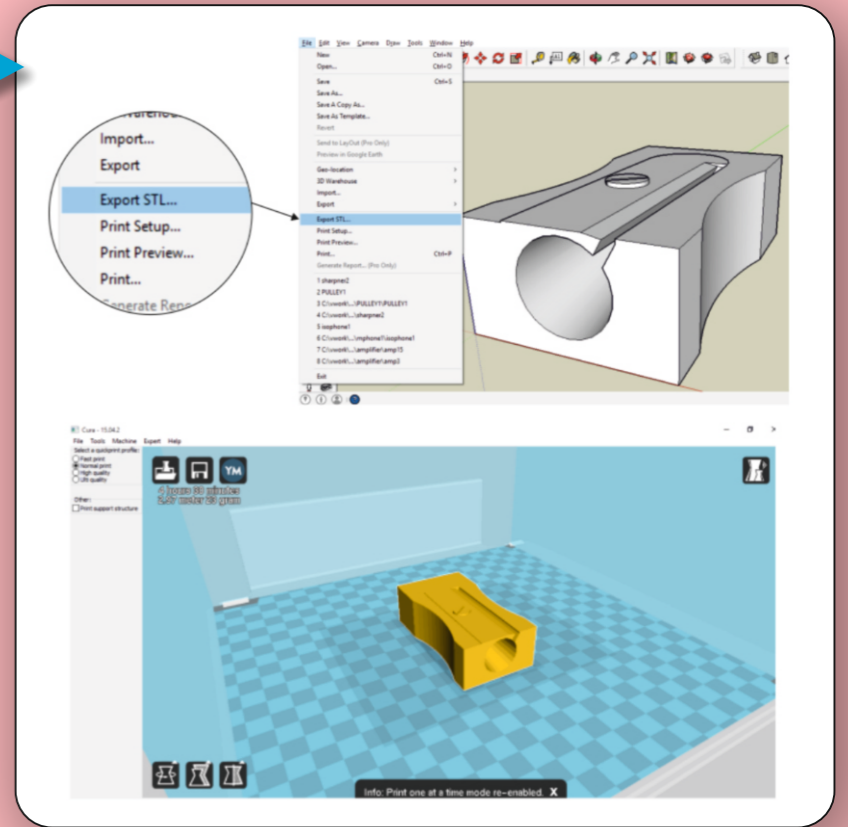
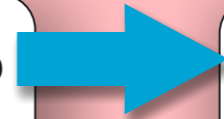
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**ARE YOU READY?
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1 WHAT ROLE DOES 'CAD' PLAY, IN DESIGNING A PRODUCT TO BE PRINTED BY A 3D PRINTER?
You can use the diagrams for reference.



2 THIS IS A '3D PRINTER'. DESCRIBE ITS FUNCTION IN THE NEXT BOX.

☀️ Include reference to the materials it uses.

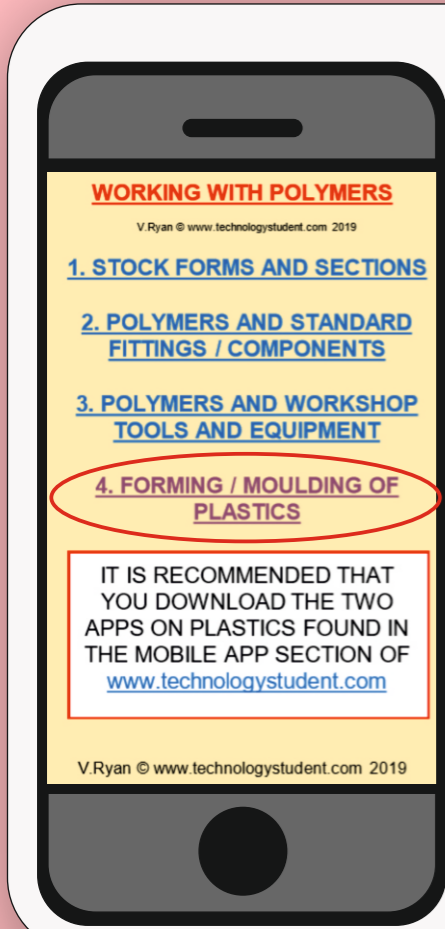


YOUR DESCRIPTION

3 WHAT IS VACUUM FORMING? DESCRIBE THE PROCESS. Include a sketch and notes.

<u>SKETCH</u>	<u>DESCRIPTION</u>
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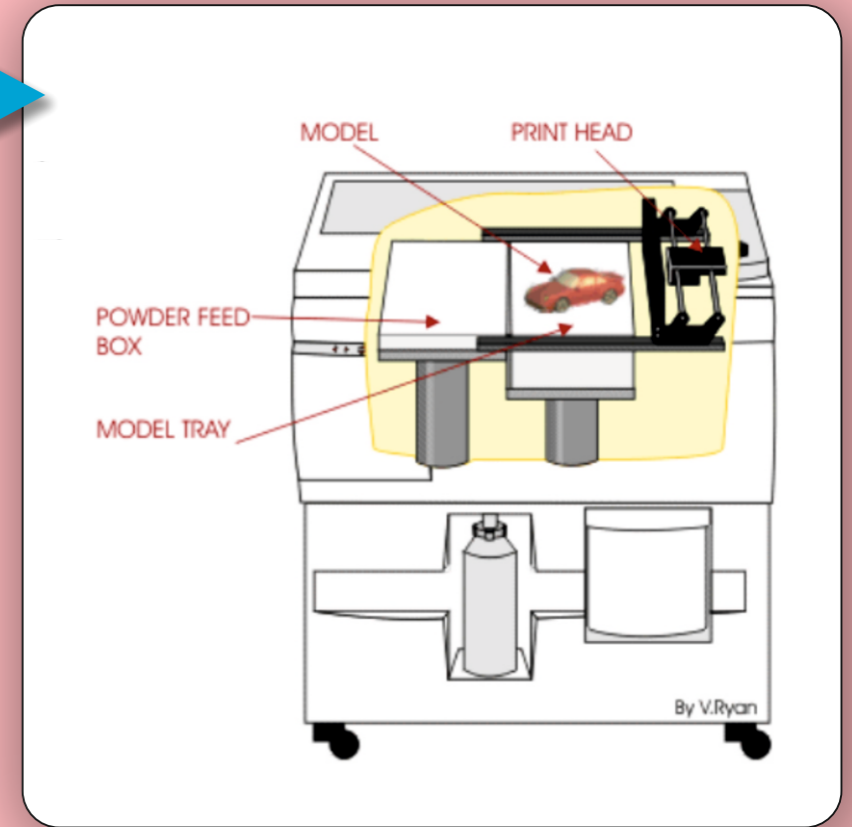
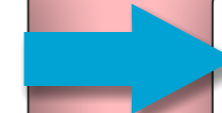
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1

WHAT IS STEREOLITHOGRAPHY?

If required, you can use the diagram for reference.

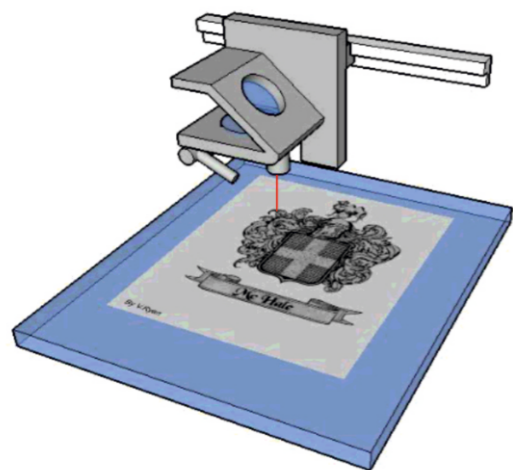


2

HOW CAN A LASER CUTTER BE USED WITH POLYMERS. Include reference to 'cutting' and 'etching'.

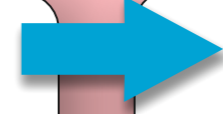
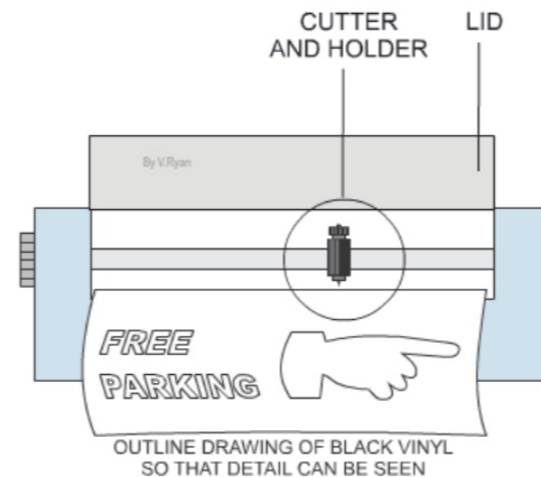
TYPICAL LASER CUTTER

YOUR ANSWER



3

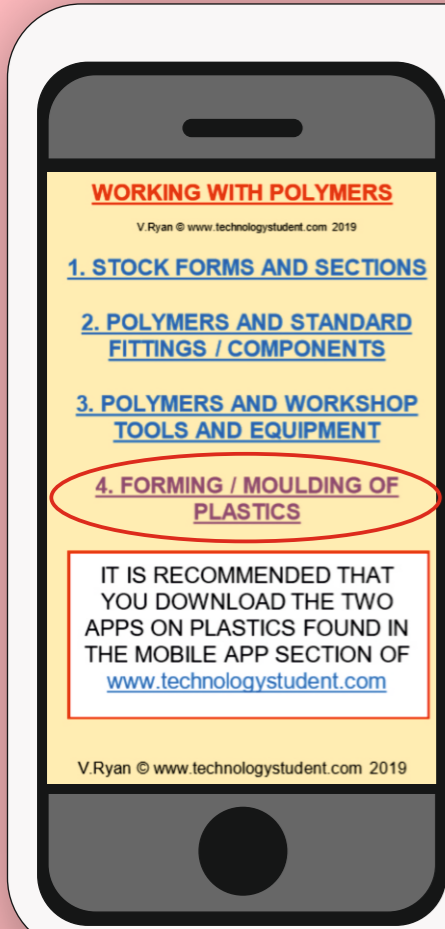
THIS IS VINYL CUTTING.



WHAT IS A VINYL CUTTER?

WHAT TYPE OF WORK CAN IT PERFORM?

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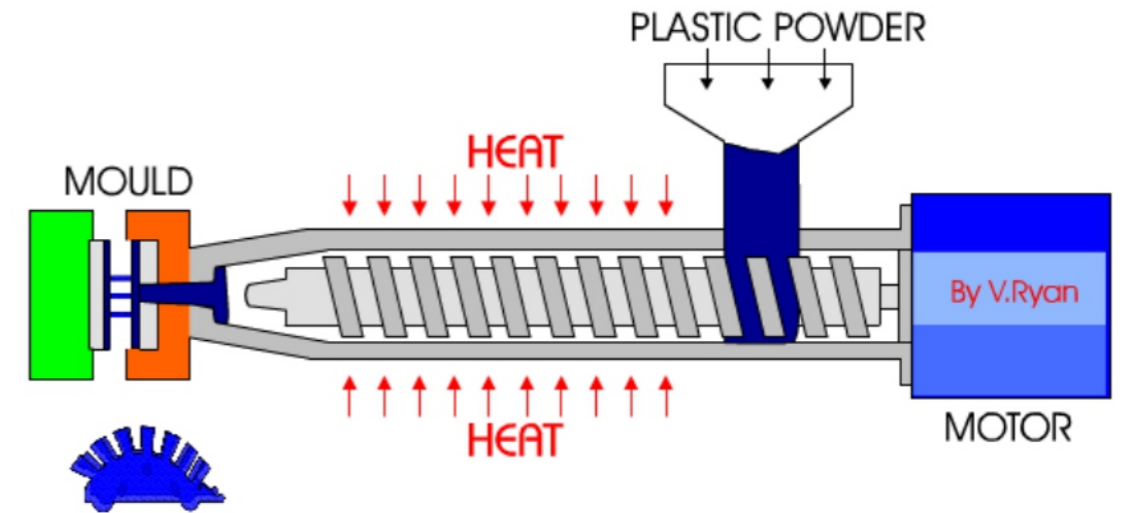
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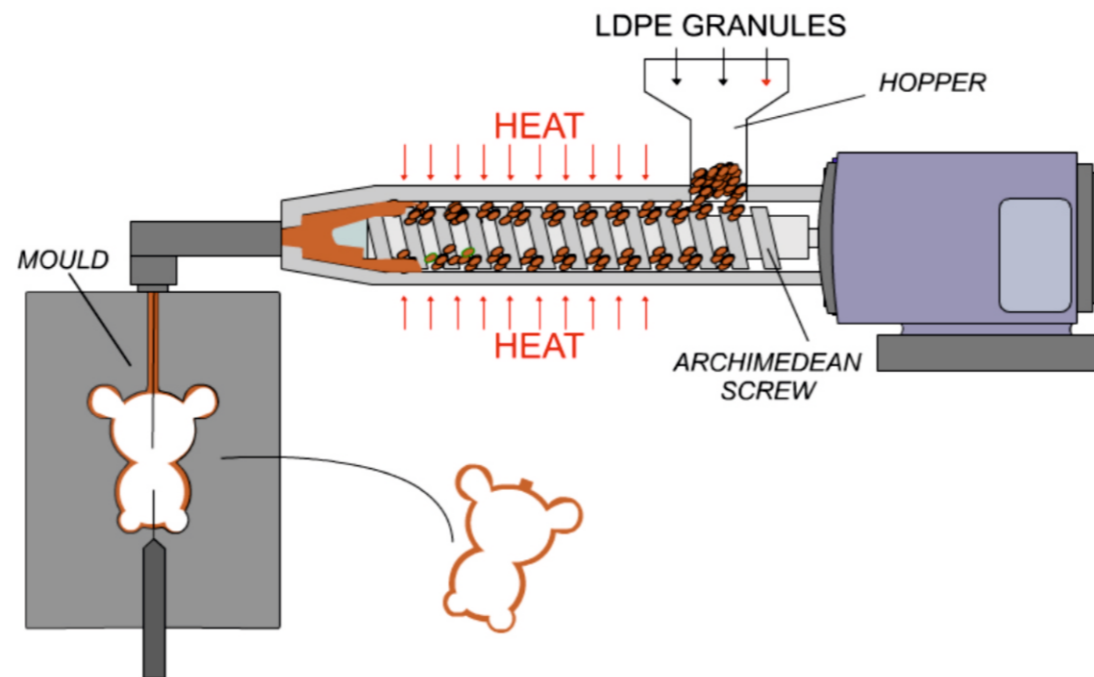
1

WHAT IS INJECTION MOULDING? AS SHOWN IN THE DIAGRAM BELOW.
You can use the diagram for reference **AND** name the materials used in this process.



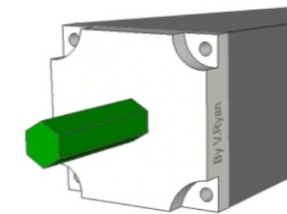
2

HOW DOES 'BLOW MOULDING' DIFFER FROM 'INJECTION MOULDING'?
You can use the diagram for reference **AND** name the materials used in this process.

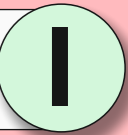


3

WHAT IS THE EXTRUSION OF PLASTICS?



HELPFUL LINK: https://www.technologystudent.com/mobapps/processing_polymers1.pdf



FORMING AND MOULDING OF PLASTICS

1

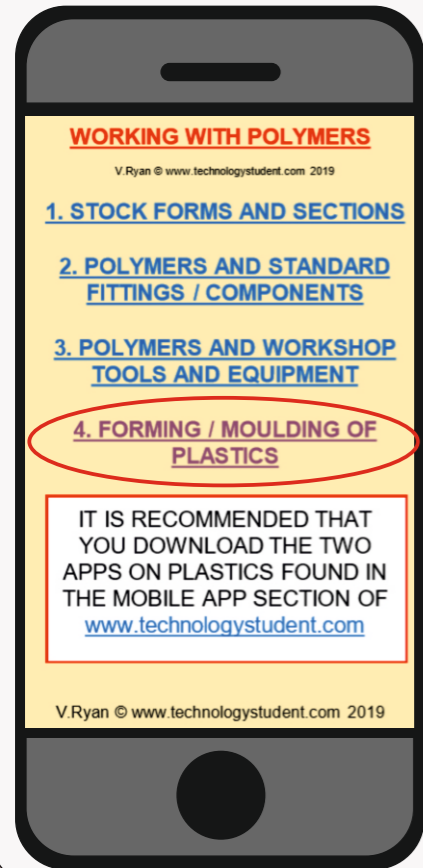
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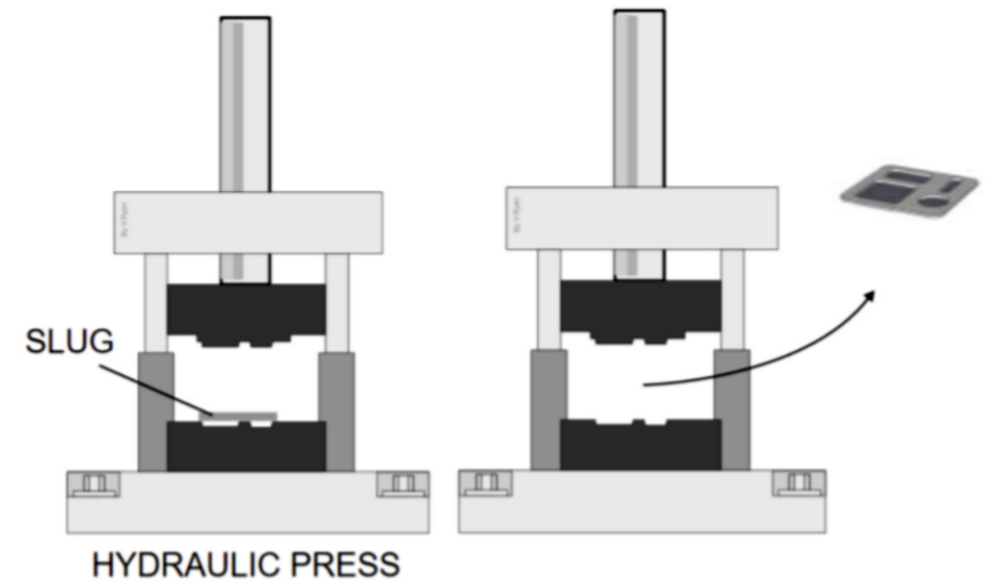
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WHAT IS COMPRESSION MOULDING? AS SHOWN IN THE DIAGRAM BELOW.

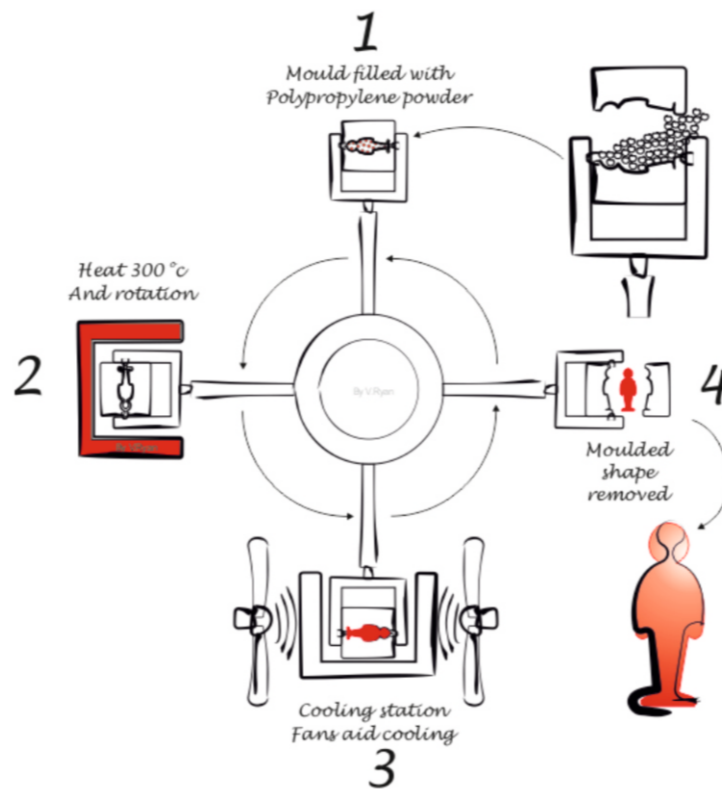
Include a description of the process.



2

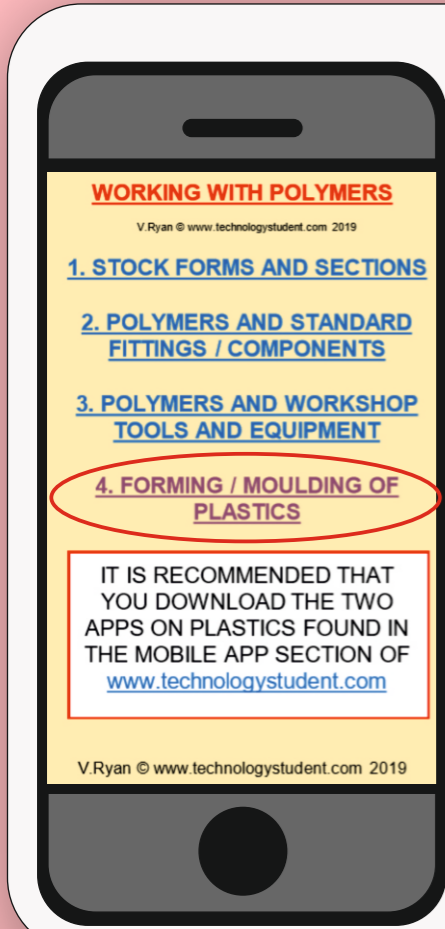
NAME THE PROCESS SHOWN OPPOSITE

DESCRIBE THE PROCESS.



LIST PRODUCTS MANUFACTURED THROUGH THE PROCESS YOU NAMED.

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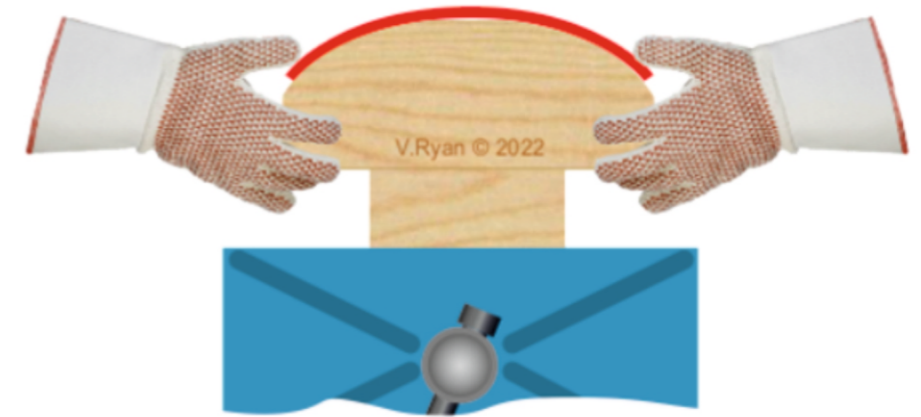
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1

WHAT IS DRAPE FORMING (DRAPING) OF PLASTICS? AS SHOWN IN THE DIAGRAM BELOW.

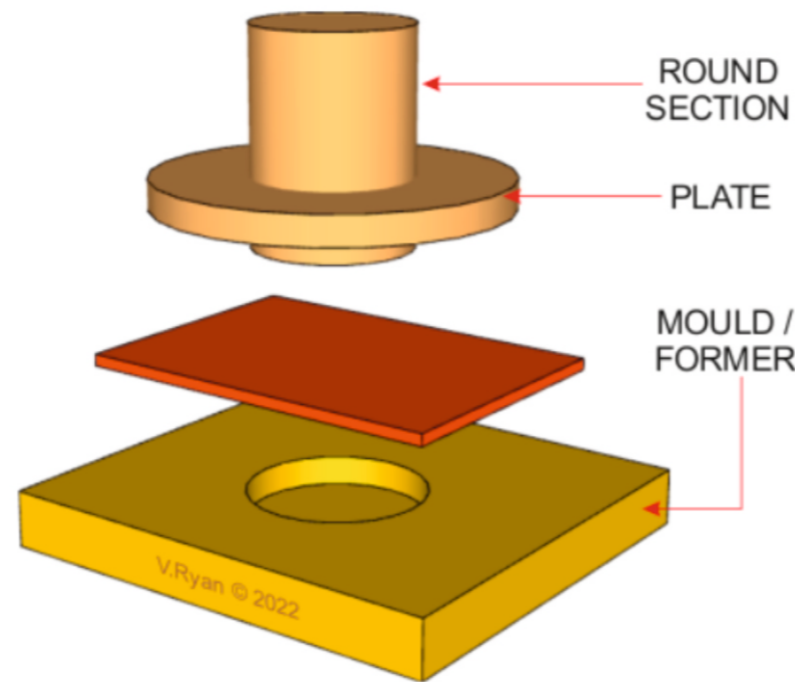
Include a description of the process.



2

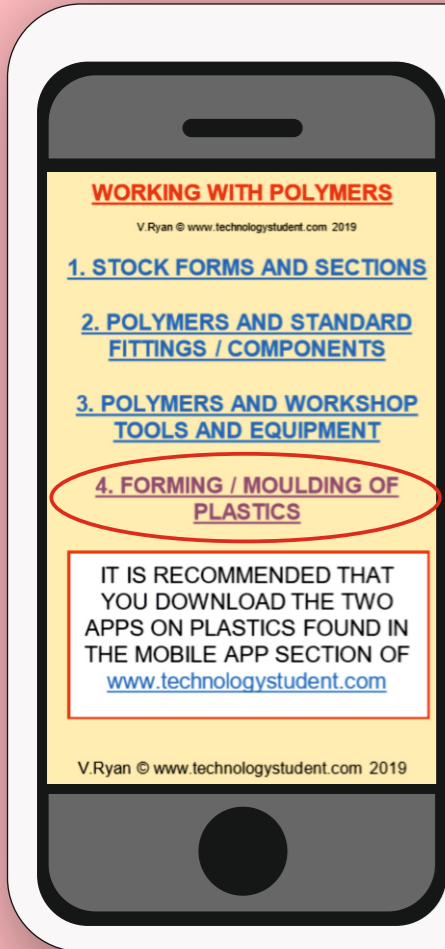
NAME THE PROCESS SHOWN OPPOSITE

DESCRIBE THE PROCESS.



NAME PRODUCTS THAT COULD BE MANUFACTURED THROUGH THE PROCESS YOU NAMED.

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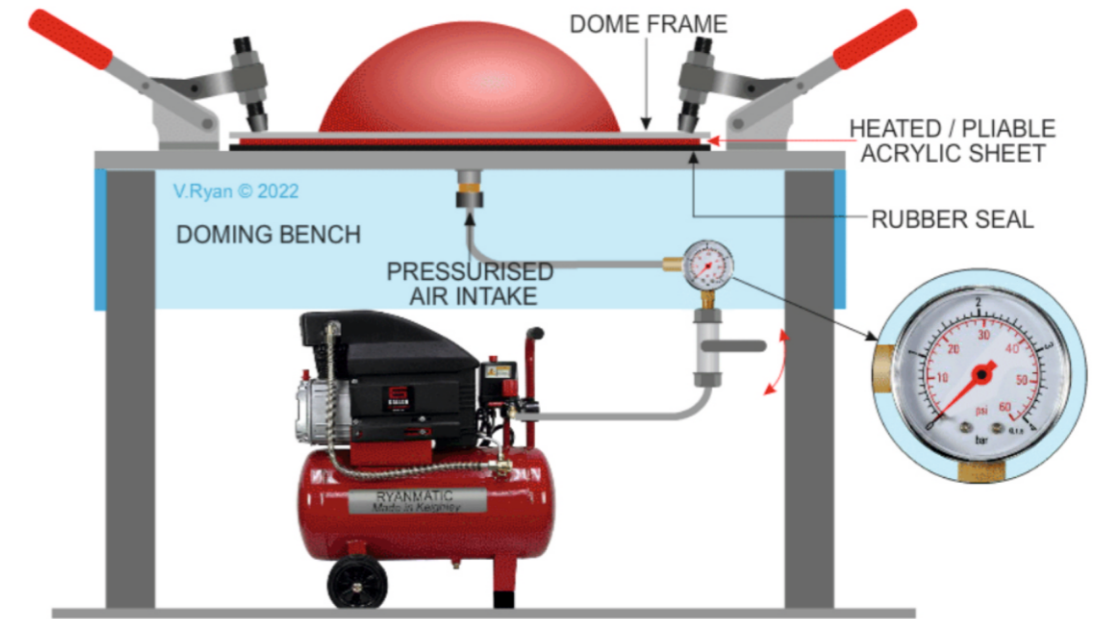
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1

WHAT IS DOMING OF ACRYLIC? AS SHOWN IN THE DIAGRAM BELOW.

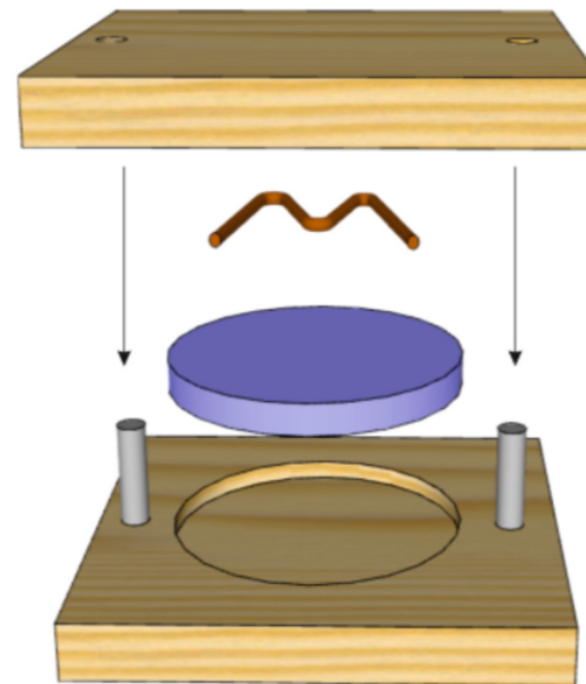
Include a description of the process.



2

NAME THE PROCESS SHOWN OPPOSITE

DESCRIBE THE PROCESS.



3

NAME PRODUCTS THAT ARE MANUFACTURED THROUGH THE PROCESS CALLED DOMING. (Shown above)

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