

FINISHES TO METALS

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'FINISHES TO WOODS AND METALS' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

http://www.technologystudent.com/mobapps/materials_finishes1.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 LIST THREE REASONS WHY A FINISH IS APPLIED TO METALS?

2 LIST SIX WAYS METALS CAN BE PROTECTED, WITH A FINISH.

A _____

B _____

C _____

D _____

E _____

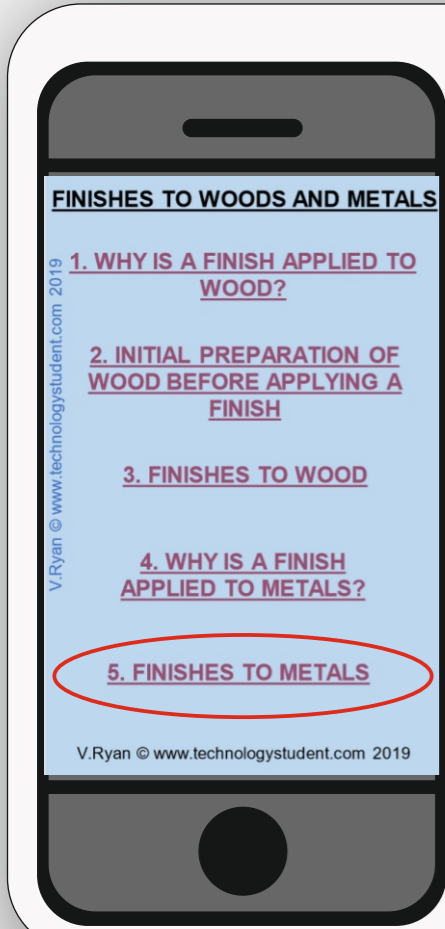
F _____

3 BELOW IS A DIAGRAM REPRESENTING ANODISING. Study the diagram and then answer the questions in the next two boxes.

WHAT ARE THE BEFITS OF ANODISING?

DESCRIBE THE ANODISING PROCESS.

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1

WHAT IS PLANISHING?

Support your answer with a sketch in the next box.



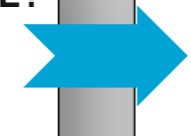
YOUR SKETCH - PLANISHING.

2

IN THE SPACE BELOW, PASTE FOUR IMAGES OF PLANISHED PRODUCTS / SURFACES.

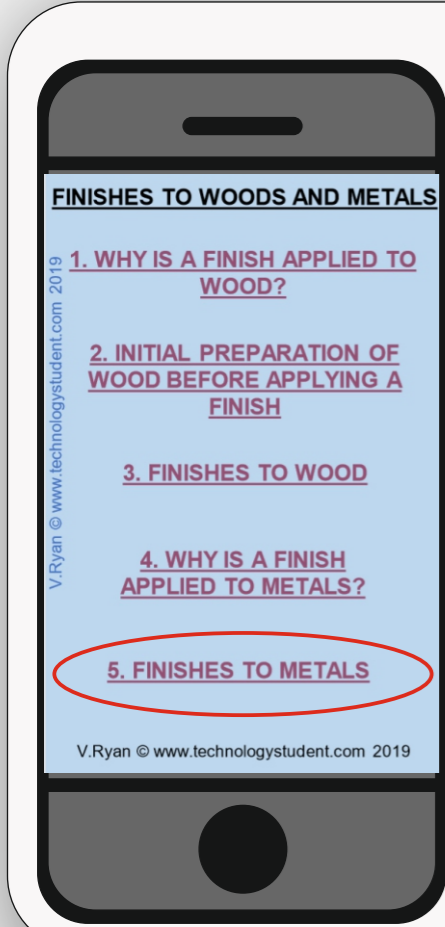
3

WHEN IS LACQUER NORMALLY APPLIED TO THE SURFACE OF A METAL?



DESCRIBE THE PROCESS OF APPLYING LACQUER TO A METAL.

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1

WHAT IS POWDER COATING?



LIST FOUR PRODUCTS THAT ARE SOMETIMES POWDER COATED.

A _____

B _____

C _____

D _____

2

IN THE SPACE BELOW, DRAW A DIAGRAM THAT REPRESENTS APPLYING A 'POWDER COATING'.

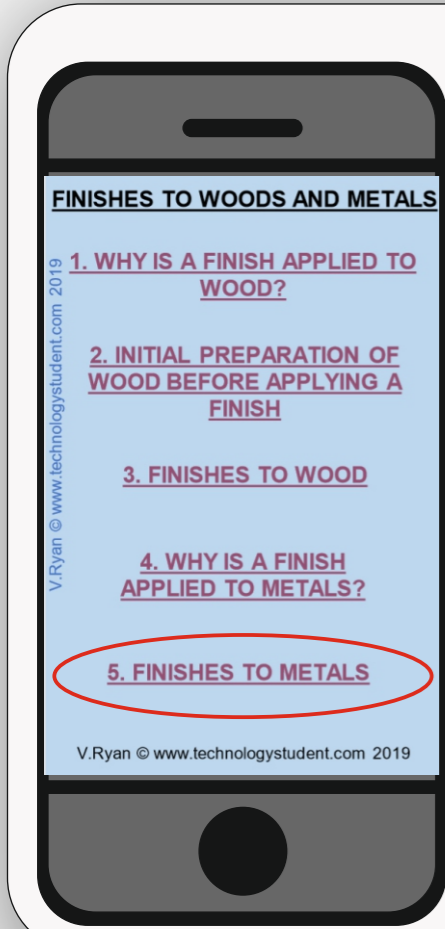
3

DESCRIBE TWO TECHNIQUES FOR SPRAYING METAL SURFACES WITH PAINT.

4

WHAT IS THE DIFFERENCE BETWEEN WATER BASED AND OIL / SOLVENT BASED PAINTS?

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1

WHAT IS A 'MACHINED' FINISH?

NAME THREE MACHINES THAT PRODUCE A 'MACHINED' FINISH.

2

DESCRIBE MACHINING THAT YOU HAVE CARRIED OUT.

3

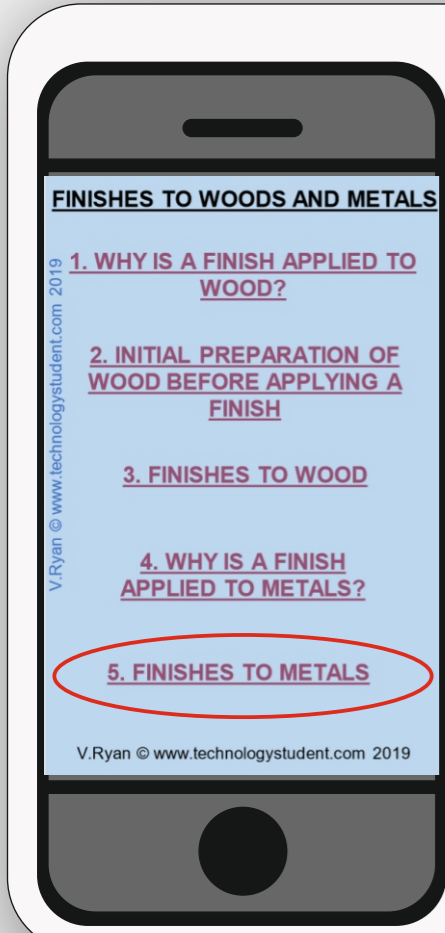
IN THE SPACE BELOW, PASTE IMAGES OF THREE DIFFERENT 'MACHINED FINISHES'. NAME THE MACHINE USED TO PRODUCE EACH FINISH.

MACHINE: _____

MACHINE: _____

MACHINE : _____

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1

WHAT IS HOT DIP GALVANISING?

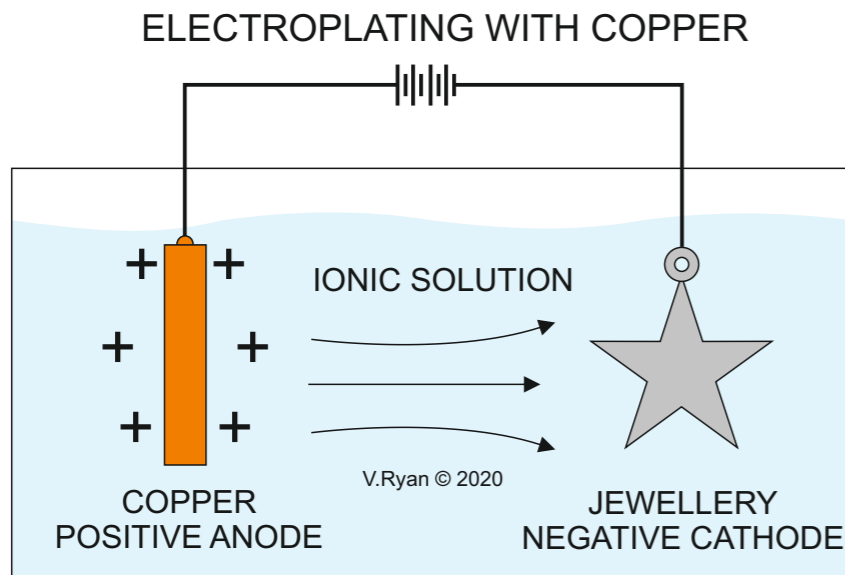
Support your answer with a sketch in the next box.



YOUR SKETCH - HOT DIP GALVANISING.

2

BELOW IS A DIAGRAM REPRESENTING ELECTROPLATING. Study the diagram and then answer the questions in the next two boxes.

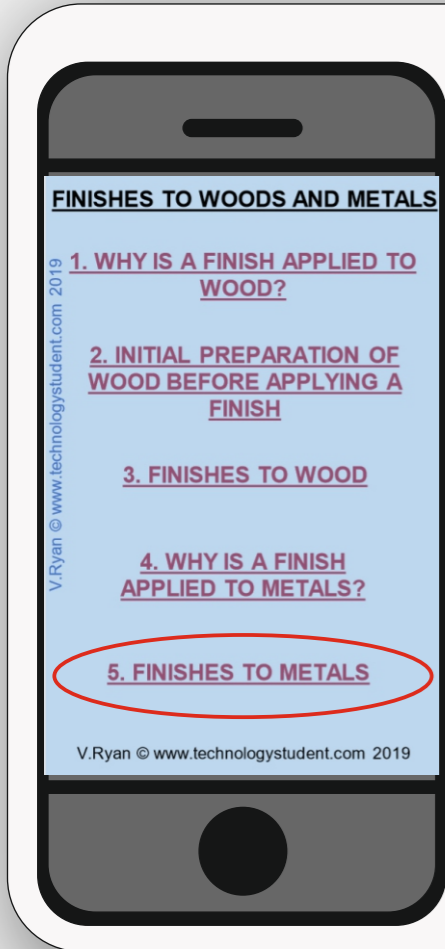


WHAT ARE THE BEFITS OF ELECTROPLATING?



DESCRIBE THE ELECTROPLATING PROCESS.

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1

WHAT IS ELECTRO-GALVANISING?

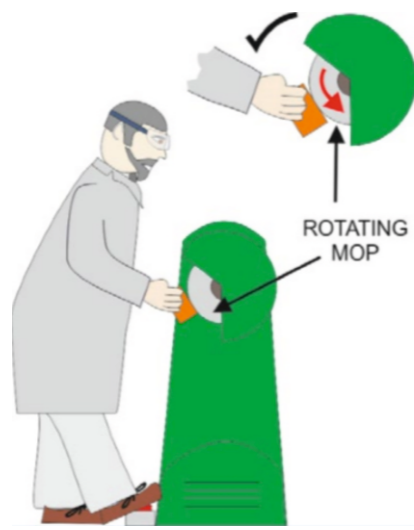
Support your answer with a sketch in the next box.



YOUR SKETCH - ELECTRO-GALVANISING.

2

A POLISHED FINISH IS OFTEN APPLIED TO METALS. DESCRIBE THE POLISHING PROCESS, SHOWN BELOW.



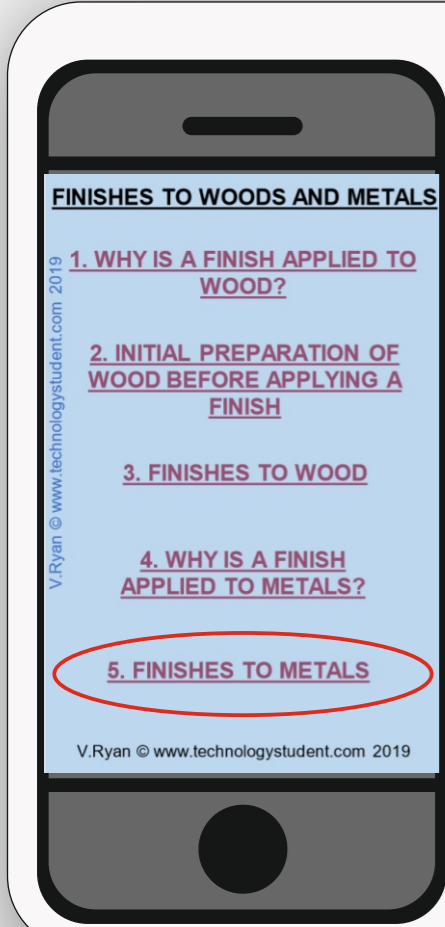
3

BELOW ARE ETCHED PRODUCTS



DESCRIBE ONE ETCHING PROCESS.

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1

BRIEFLY, WHAT IS CASE HARDENING?

WHAT IS THE BENEFIT OF CASE HARDENING?

2

**SEARCH THE INTERNET FOR CASE HARDENED COMPONENTS / PRODUCTS.
LIST FOUR BELOW:**

A: _____

B: _____

C: _____

D: _____

3

DESCRIBE THE CASE HARDENING PROCESS.

Include a sketch(s) supporting your description.

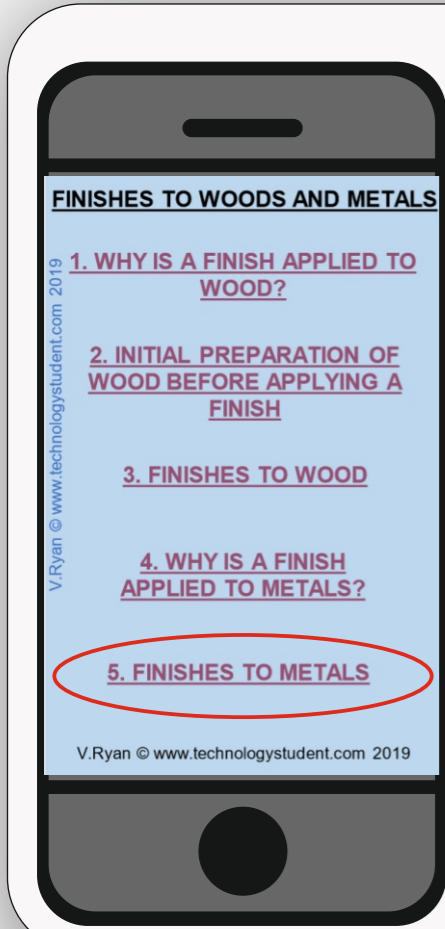


YOUR SKETCH(S) - CASE HARDENING.

4

WHAT IS 'ANNEALING' OF METALS?

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1

WHAT IS TRADITIONAL OIL BLACKING OF STEEL? DESCRIBE THE PROCESS.

Support your answer with a sketch in the next box.



YOUR SKETCH - TRADITIONAL OIL BLACKING.

2

DESCRIBE THE CHEMICAL BLACKING PROCESS.

Include a sketch(s) supporting your description.



YOUR SKETCH(S) - CHEMICAL BLACKING.

3

PASTE IMAGES OF OIL BLACKED COMPONENTS, IN THE SPACE BELOW.

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