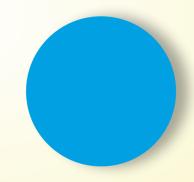
# JEWELLERY MANUFACTURE - TOOLS AND TECHNIQUES PART ONE

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JEWELLERY AND SILVERSMITHING -1" APP, FROM
THE INTERACTIVE MOBILE APP SECTION OF
www.technologystudent.com

CLICK ON THE BUTTON TO DOWNLOAD THE APP



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**JEWELLERY WORK - 1** INTRODUCTION TO BASIC **JEWELLERY TOOLS** 2. THE JEWELLER'S TORCH, **SOLDERING AND ANNEALING** 3. ENGRAVING, TEXTURING, REPOUSSE 4. ENAMELLING 5. INLAYING WIRE, STRIPS AND SHEETS

### **JEWELLERY TOOLS**

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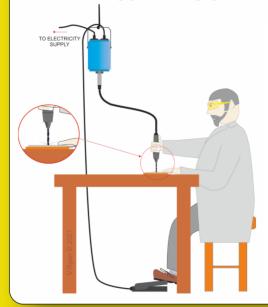
Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

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

IN THE SPACE BELOW SKETCH A BOW DRILL or PASTE AN IMAGE. LABEL THE PARTS.

DESCRIBE THE USE OF A BOW DRILL

THE DIAGRAM SHOWS A PENDANT DRILL BEING USED. DESCRIBE ITS GENERAL USE IN A WORKSHOP.



IN THE SPACE BELOW, PASTE AN **IMAGE OF A PIN VICE or SKETCH IT** 

DESCRIBE THE USE OF A PIN VICE

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NAME EACH OF THE JEWELLER'S PLIERS SHOWN BELOW. SKETCH A USE ALONGSIDE EACH PAIR OF PLIERS.

NAME:



NAME:



NAME EACH OF THE JEWELLER'S PLIERS SHOWN BELOW. SKETCH A USE ALONGSIDE EACH PAIR OF PLIERS.

NAME:

NAME:

NAME:

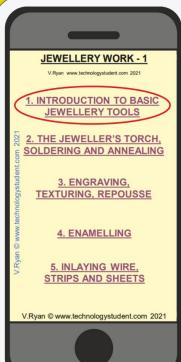






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WHAT IS A JEWELLERS TRIBLET? Paste / draw an image of this 'tool' in the box opposite

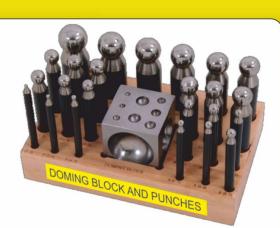
SKETCH / PASTE YOUR IMAGE HERE

THIS IS A 'JEWELLERY ROLLING MILL'. DESCRIBE THE TYPE OF WORK THAT CAN BE PERFORMED USING IT.



SKETCH (or paste an image) AND DESCRIBE ONE USE, OF A DOMING BLOCK AND PUNCHES

SKETCH:



**DESCRIPTION:** 

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4. ENAMELLING

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#### **DESCRIBE A TYPICAL USE OF A** PIERCING SAW.

Add a sketch / paste an image, of its use in the next box.

YOUR SKETCH / IMAGE

NEEDLE FILES ARE COMMON TOOLS. DESCRIBE THEIR USE.

(Sketch / paste an image of **one** use, in the box opposite)



SKETCH - USING A NEEDLE FILE.

WHAT IS THE PURPOSE / FUNCTION **OF TINSNIPS?** 

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**DESCRIBE HOW LIGHT BENCH** SHEARS ARE USED.

WHAT IS THE FUNCTION OF A POLISHING / BUFFING MACHINE?

#### THIS IS A JEWELLER'S SWAGE BLOCK. DESCRIBE ITS FUNCTION.

Add a sketch / paste an image, to support your description, in the next box.



YOUR SKETCH / IMAGE

**HOW ARE FOLDING BARS USEFUL** TO A JEWELLER, WHEN WORKING

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#### **SOLDERING**

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SKETCH / PASTE A LABELLED DIAGRAM OF A 'BUTANE' JEWELLER'S TORCH.



**BRIEFLY DESCRIBE TWO TYPES OF TORCHES USED BY JEWELLERS** 

(Not the Butane torched mentioned in Q1)

NAME AND DESCRIBE THE USE OF TWO TYPES OF FLAME PRODUCED BY A JEWELLER, USING A GAS TORCH.

**DESCRIPTION:** 

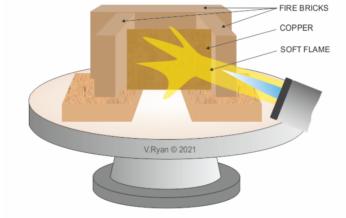


NAME: **DESCRIPTION:** 





A GAS TORCH CAN BE USED TO ANNEAL A NON-FERROUS METAL, SUCH AS COPPER OR ALUMINIUM. WHAT IS ANNEALING? DESCRIBE THE ANNEALING PROCESS.



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#### WHAT IS HARD SOLDERING?

**COMPLETE THE TABLE BELOW, BY ADDING** THE NAME OF EACH SOLDER, ALONGSIDE ITS **CORRECT TEMPERATURE RANGE** 

SOLDER	TEMPERATURE RANGE
	680-700
	705-723
	720-765
	745-778
	730-800

BRIEFLY DESCRIBE THE 'HARD SOLDERING' PROCEDURE, WHEN JOINING TWO SMALL PIECES OF SHEET COPPER.

Add an image / sketch for each stage.

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



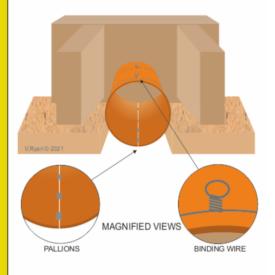
WHEN SOLDERING, 'PALLIONS' CAN **BE USEFUL. WHAT ARE PALLIONS?** 

Draw a sketch / add an image in the next box, showing how pallions are produced.

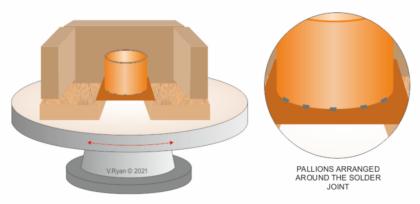


YOUR SKETCH / IMAGE - HOW PALLIONS ARE PRODUCED.

**EXPLAIN THE POSITIONING OF PALLIONS AND THE USE OF** BINDING WIRE, AS SEEN IN THIS DIAGRAM.



EXPLAIN THE POSITIONING OF PALLIONS AND USE OF THE ROTATING TABLE, DURING THE SOLDERING OF THE CYLINDER TO A BASE.

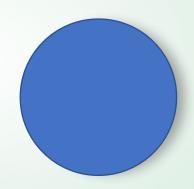


**HELPFUL LINK:** 

# JEWELLERY MANUFACTURE - TOOLS AND TECHNIQUES PART TWO

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#### JEWELLERY TECHNIQUES

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



IN THE SPACE BELOW, SKETCH or PASTE AN IMAGE OF A GRAVER (used for hand engraving).

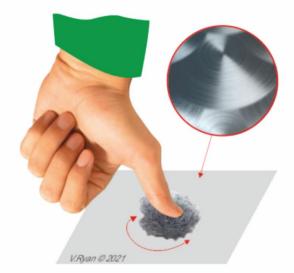


WHY DO JEWELLERS USE 'GRAVERS'?

THE DIAGRAM SHOWS A JEWELLER USING A 'GRAVER'. DESCRIBE HOW IT IS USED TO PRODUCE THE TYPE OF PATTERN SHOWN BELOW.



**EXPLAIN THIS TEXTURING** TECHNIQUE, IN THE BOX OPPOSITE.



YOUR EXPLANATION

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#### JEWELLERY TECHNIQUES

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DESCRIBE HOW A 'GRAVER' CAN BE **USED TO TEXTURE A SURFACE WITH** PARALLEL LINES.

Sketch / paste an image in the next box, to support your answer



WITH THE AID OF SKETCHES / IMAGES, EXPLAIN TWO WAYS A PENDANT DRILL CAN BE USED TO TEXTURE A SURFACE.

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#### JEWELLERY TECHNIQUES

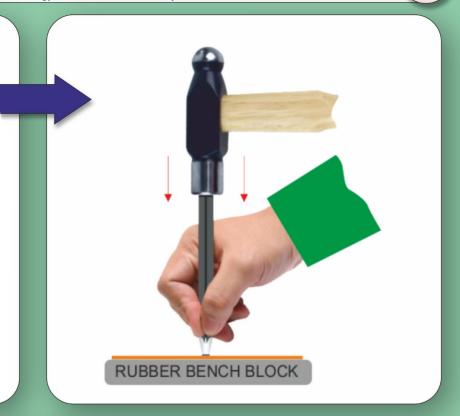
TO ANSWER ALL THE **QUESTIONS YOU WILL NEED TO DOWNLOAD THE JEWELLERY** AND SILVERSMITHING APP - 1, FROM THE INTERACTIVE **MOBILE APP SECTION OF** www.technologystudent.com

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**ARE YOU READY? USE THE MOBILE App!!**  THE DIAGRAM IN THE BOX OPPOSITE. SHOWS A 'PUNCH' BEING USED TO PATTERN / TEXTURE. EXPLAIN THIS TECHNIQUE.



**BELOW - PASTE IMAGES OF A VARIETY OF** TEXTURES, FOUND ON THE CONTACT SURFACE OF PUNCHES.

WHAT IS THE NAME OF THIS TOOL? WHAT IS ITS PURPOSE? HOW IS IT USED? COLLET COLLET

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#### WHAT IS REPOUSSE?

Make reference to the diagram opposite.



PASTE SOME IMAGES OF EXAMPLES OF REPOUSSE WORK

NAME THE FOUR MAIN TYPES OF REPOUSSE PUNCH.

Include images of the punches you have just named.

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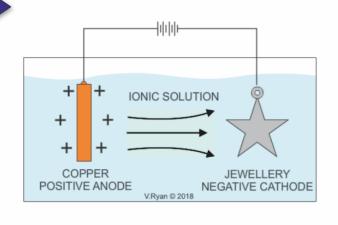
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WHAT IS ELECTROPLATING? You can make reference to the diagram in the box opposite.

**DIAGRAM OF THE PROCESS** 



PASTE IMAGES OF JEWELLERY / SILVERSMITHING, THAT HAVE BENEFITED FROM ELECTROPLATING.

DESCRIBE THE TRADITIONAL ETCHING PROCESS.

**HELPFUL LINK:** 



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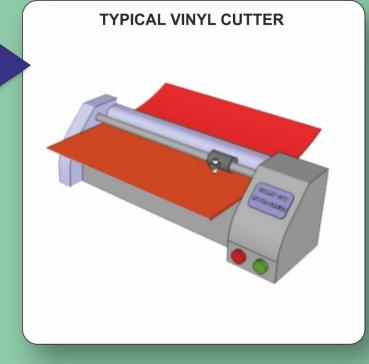
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WHAT IS THE ROLE OF A VINYL CUTTER WHEN PREPARING TO ETCH?



WHAT IS THE ROLE OF AN 'ETCHING TANK', WHEN ETCHING A METAL **SUCH AS COPPER?** 



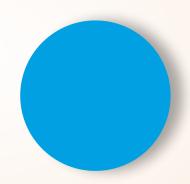
SEARCH THE INTERNET FOR IMAGES OF PRODUCTS THAT HAVE BEEN ETCHED. PASTE YOUR IMAGES HERE.

**HELPFUL LINK:** 

# JEWELLERY MANUFACTURE - TOOLS AND TECHNIQUES PART THREE

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#### WHAT IS ENAMELLING?

WHAT IS THE DIFFERENCE BETWEEN 'OPAQUE' AND 'TRANSPARENT' **ENAMELS?** 

#### THE DIAGRAM BELOW, SHOWS THE STAGES INVOLVED IN THE PREPARATION OF NONFERROUS METAL, FOR ENAMELLING. EXPLAIN EACH STAGE. Use the diagrams for reference.



2. PICKLE IN ACID BATH



WASH

4. CLEANED WITH PUMICE **POWDER** 



5.



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**ARE YOU READY? USE THE MOBILE App!!**  PASTE TWO IMAGES OF JEWELLERY THAT HAVE OPAQUE ENAMELLED **SURFACES** 

PASTE TWO IMAGES OF JEWELLERY THAT HAVE TRANSPARENT **ENAMELLED SURFACES.** 

EXPLAIN THE USE OF A 'HOLDING SOLUTION' AND 'SIEVE', WHEN APPLY ENAMEL POWDER TO THE SURFACE OF A NONFERROUS METAL.





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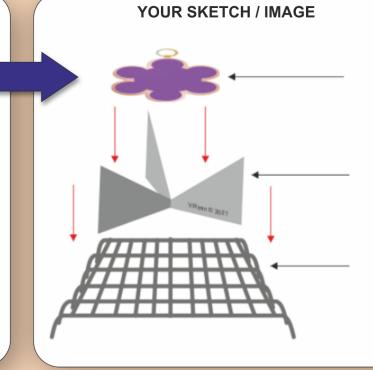
**ARE YOU READY? USE THE MOBILE App!!** 

**EXPLAIN HOW METAL IS SET UP ON THE** BRAZING HEARTH, READY FOR FIRING. Include a sketch / paste an image in the box opposite

YOUR SKETCH / IMAGE

DESCRIBE THE PROCESS OF 'FIRING' THE **ENAMELLED METAL, ON THE BRAZING HEARTH.** 

LABEL THE DIAGRAM IN THE OPPOSITE BOX. EXPLAIN WHAT THE **DIAGRAM IS SHOWING.** 



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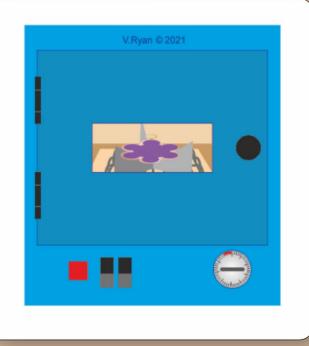
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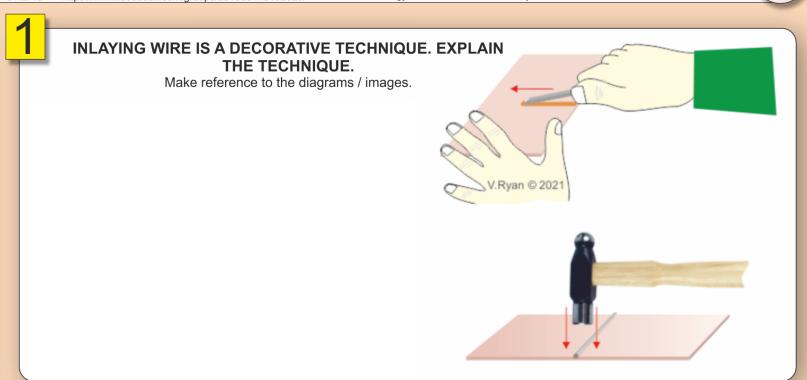
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#### DESCRIBE THE INLAYING OF METAL SHEETS

Support your description with sketches / images.

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