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SECOND SET OF SHEETS



1. STOCK FORMS AND SECTIONS

2. METALS AND STANDARD **FITTINGS / COMPONENTS**

3. METALS AND GENERAL WORKSHOP TOOLS AND EQUIPMENT

4. USING JIGS AND FORMERS

5. SPECIALIST ENGINEERING MACHINERY

6. CASTING AND SINTERING **OF METALS**

7. IMPORTANT FREE MOBILE APPS ON METALS YOU NEED TO DOWNLOAD, FOR A FULL UNDERSTANDING



THE CENTRE LATHE

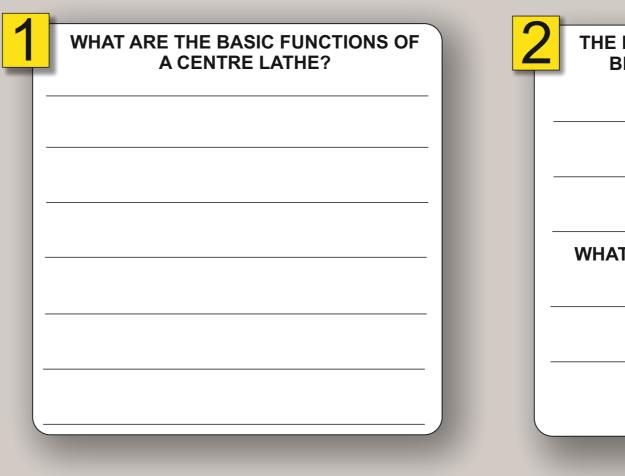
TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'WORKING WITH METALS -PART ONE' APP, FROM THE **INTERACTIVE MOBILE APP** SECTION OF www.technologystudent.com

LINK

https://www.technologystudent.com/mobapps/processing_metals1.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!!



EXPLAIN THE PROCESS OF TURNING THE DIAGRAM BELOW REPRESENTS 'FACING OFF'. WHAT IS THIS PROCESS? A SHORT TAPER. Support your answer with a sketch in the box opposite CHUCK TOP SLIDE STEEL CROSS-SLIDE HANDLE HELPFUL LINK: https://www.technologystudent.com/mobapps/processing metals1.pdf

THE HEADSTOCK OF A CENTRE CAN **BE OPENED. WHAT IS INSIDE?**

WHAT CAN BE CHANGED, INSIDE THE **HEADSTOCK?**

YOUR SKETCH OF PRODUCING A SHORT TAPER.



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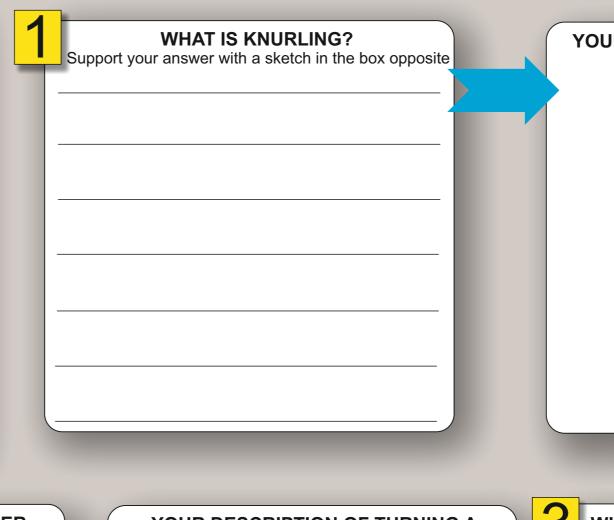
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WHEN USING A CENTRE LATHE, LIST THE DIAGRAM BELOW SHOWS TURNING A LONG TAPER. YOUR DESCRIPTION OF TURNING A DESCRIBE THIS PROCESS IN THE NEXT BOX. LONG TAPER. FOUR SAFETY FACTORS MUST BE FOLLOWED. **DIAGRAM 'A'** DIAGRAM 'B'

HELPFUL LINK: https://www.technologystudent.com/mobapps/processing_metals1.pdf

YOUR SKETCH SUPPORTING KNURLING

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THE SHAPING MACHINE AND HORIZONTAL MILLER

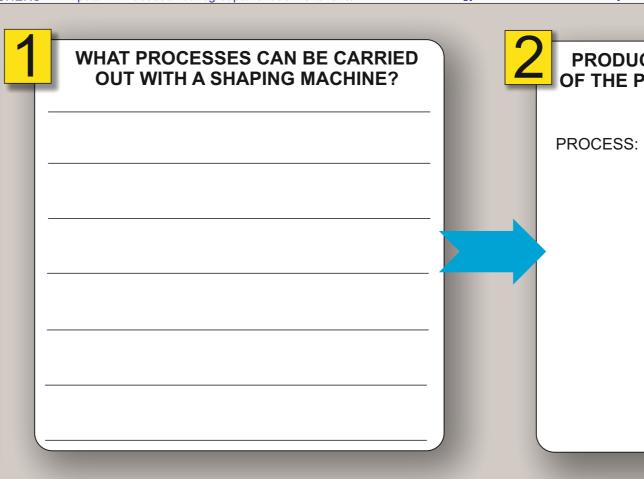
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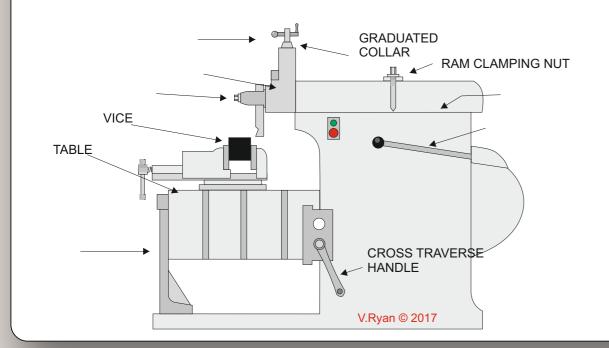
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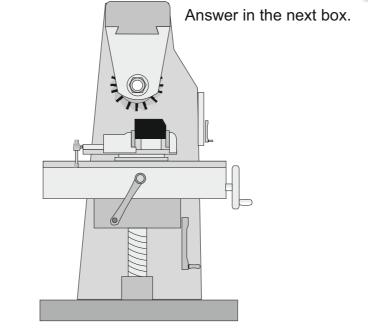
ARE YOU READY? USE THE MOBILE App!!



COMPLETE THE DIAGRAM OF THE SHAPING MACHINE. BY ADDING THE MISSING LABELS.



A HORIZONTAL MILLER IS SHOWN BELOW. **DESCRIBE SOME OF THE PROCESSES** CARRIED OUT WITH THIS MACHINE.



HELPFUL LINK: https://www.technologystudent.com/mobapps/processing metals1.pdf

PRODUCE A SKETCH, SHOWING 'ONE' OF THE PROCESSES YOU DESCRIBED IN **QUESTION 1.**

ANSWER HERE.

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THE VERTICAL MILLER AND **COMPRESSION MOULDING**

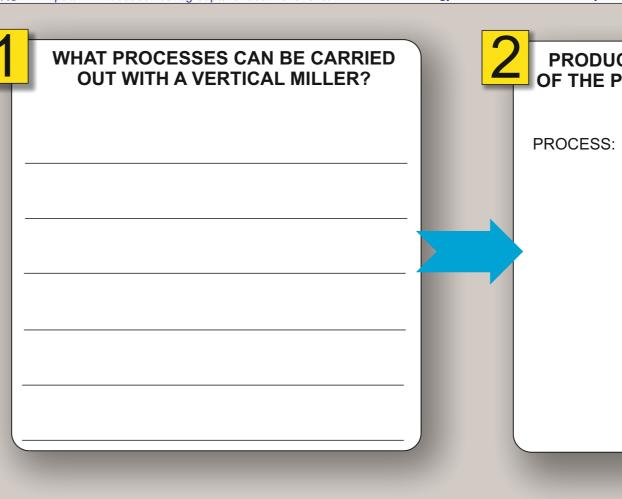
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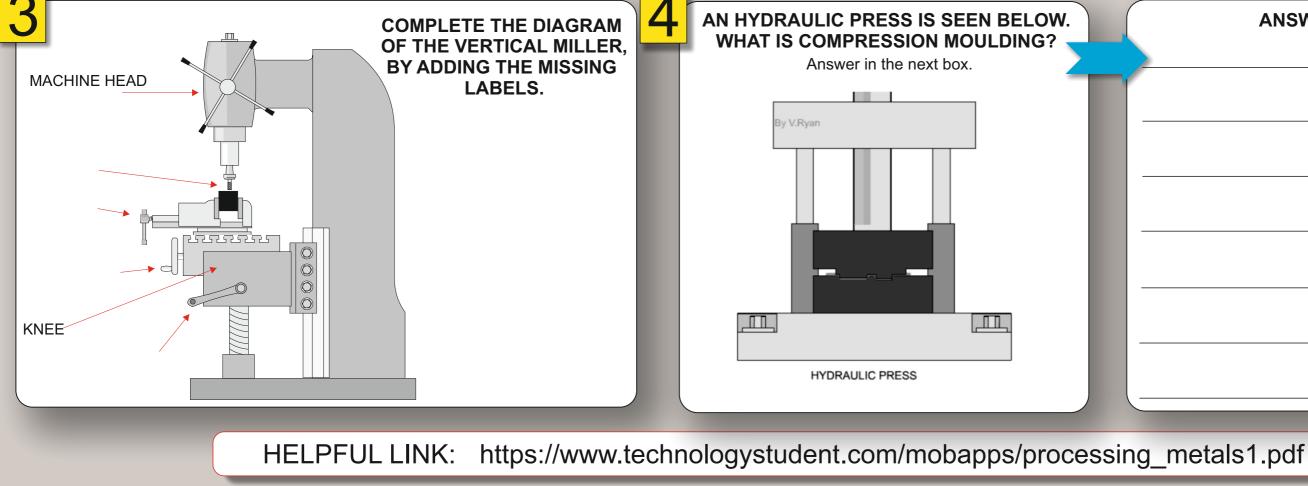
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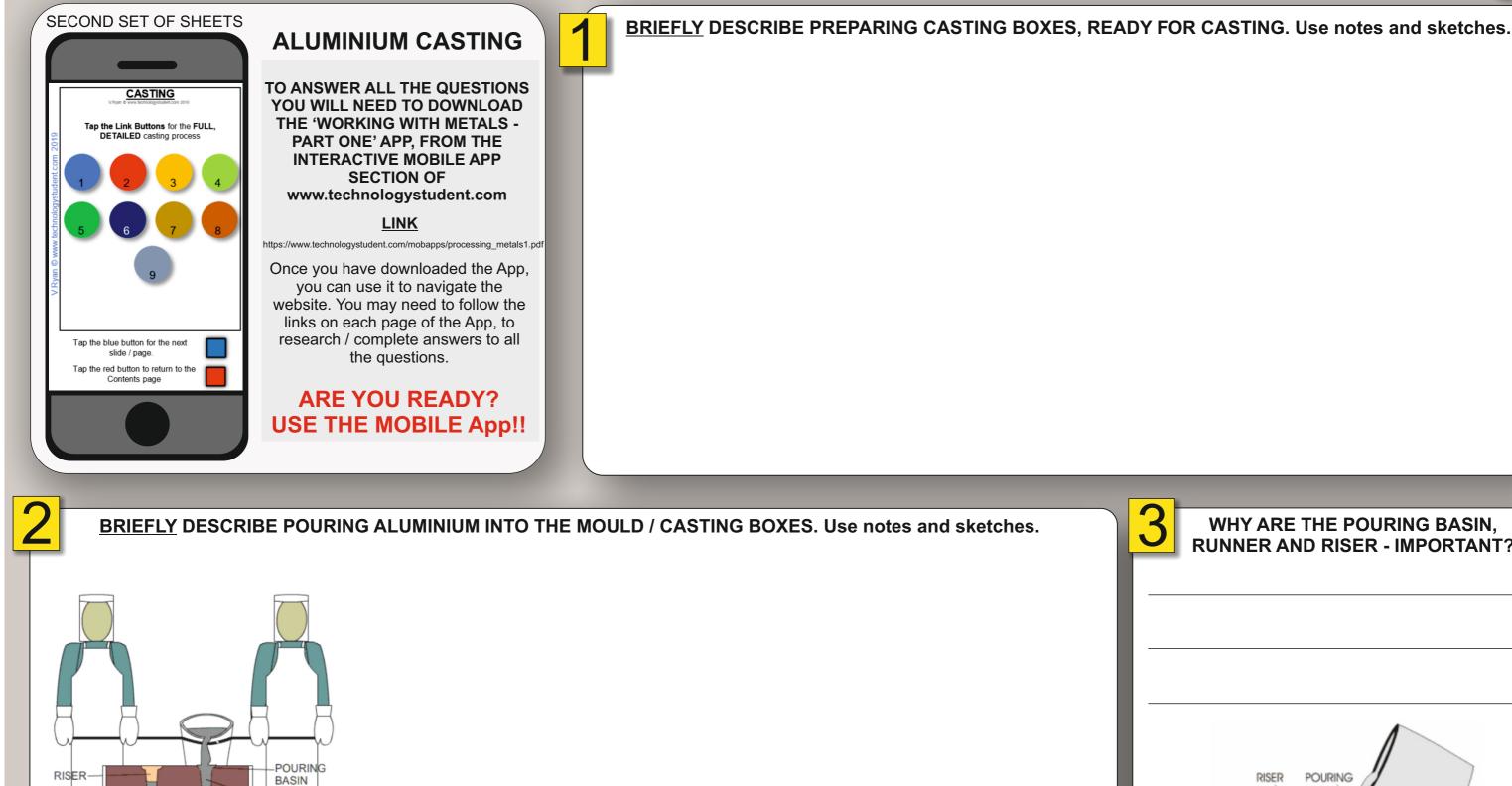




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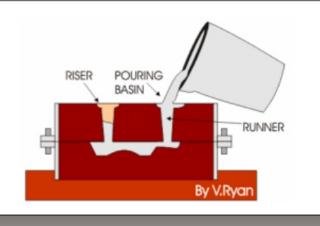
ANSWER HERE.

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RUNNER

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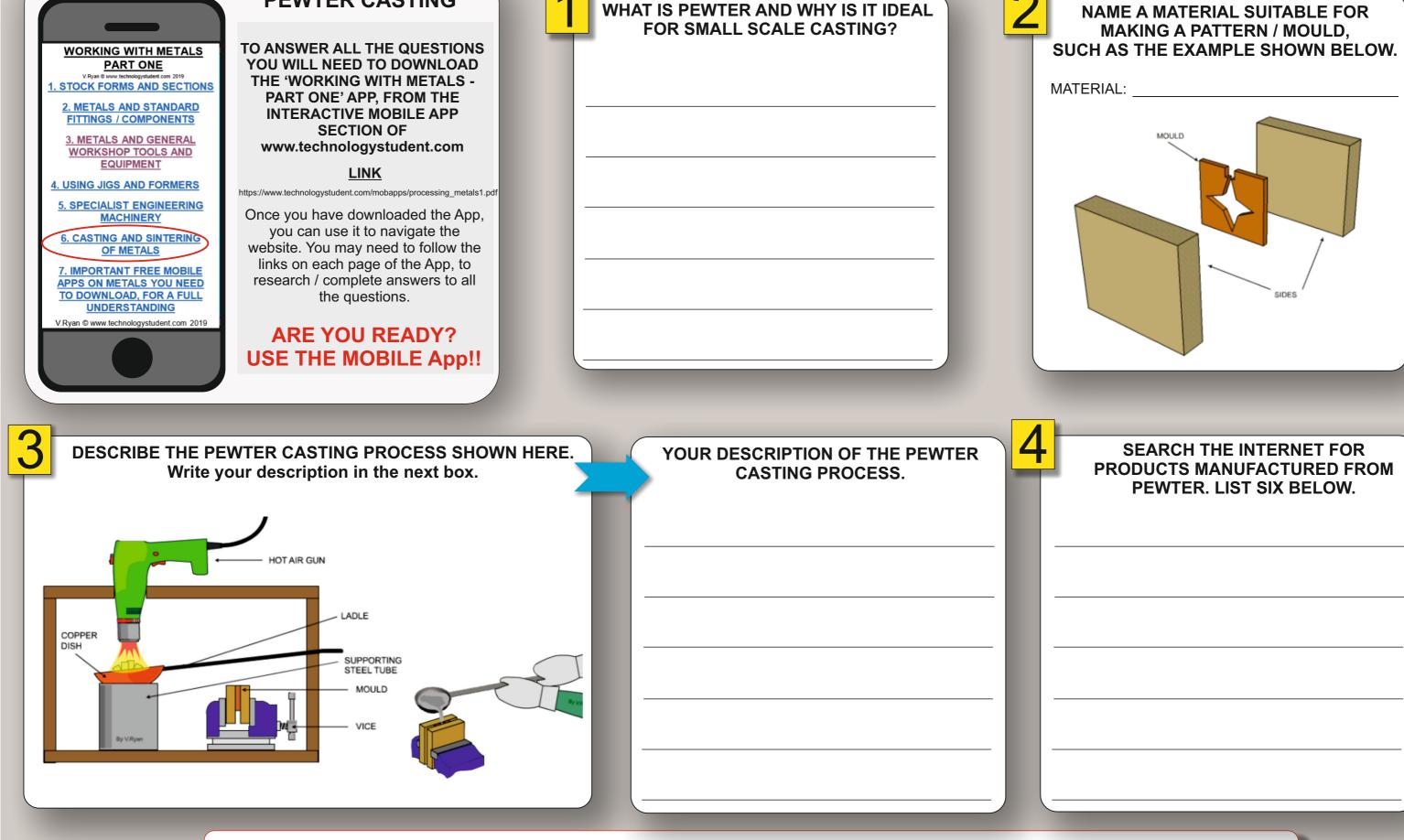
RUNNER AND RISER - IMPORTANT?

WHY ARE THE POURING BASIN,

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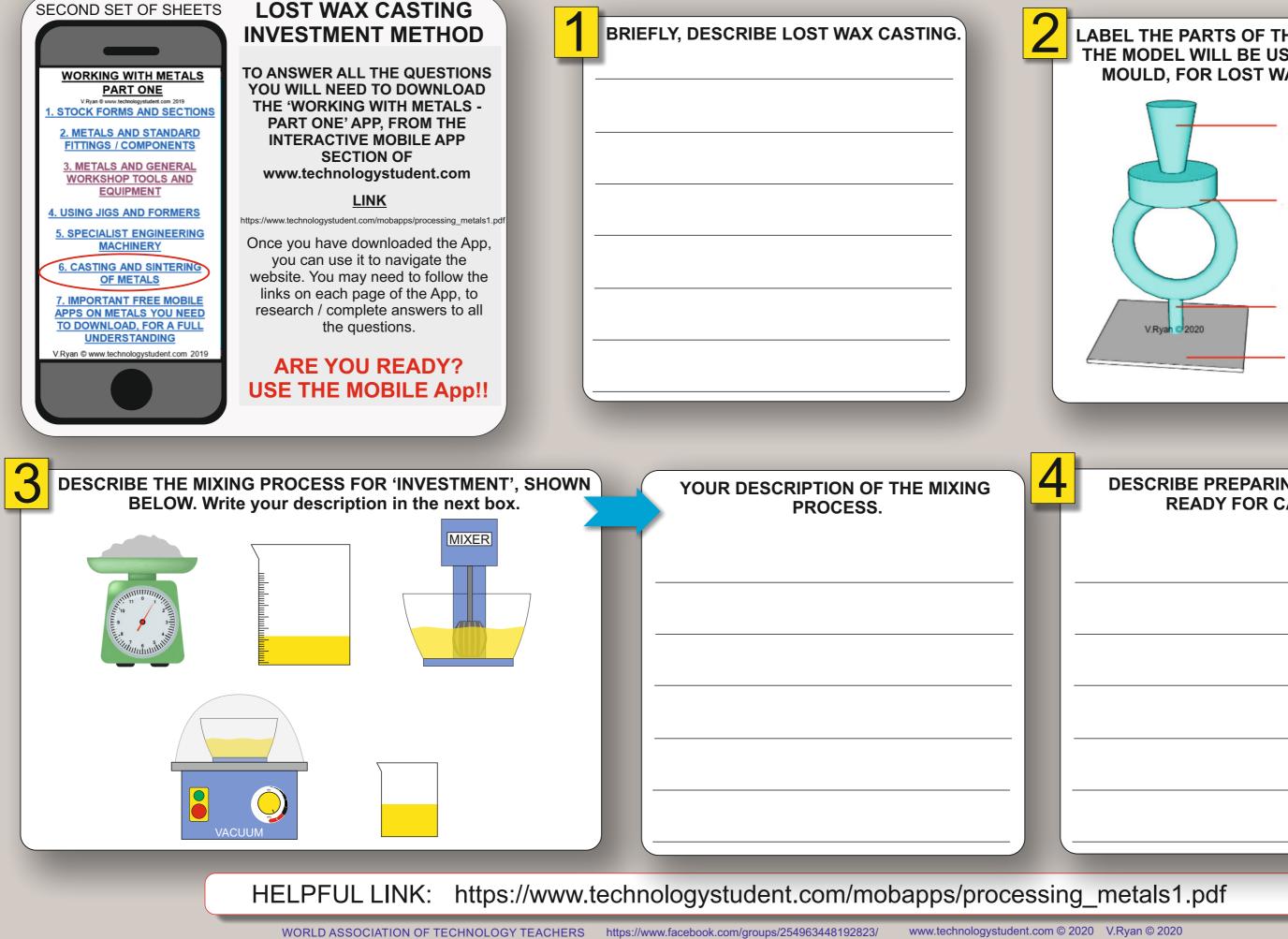
PEWTER CASTING



HELPFUL LINK: https://www.technologystudent.com/mobapps/processing metals1.pdf

NAME A MATERIAL SUITABLE FOR

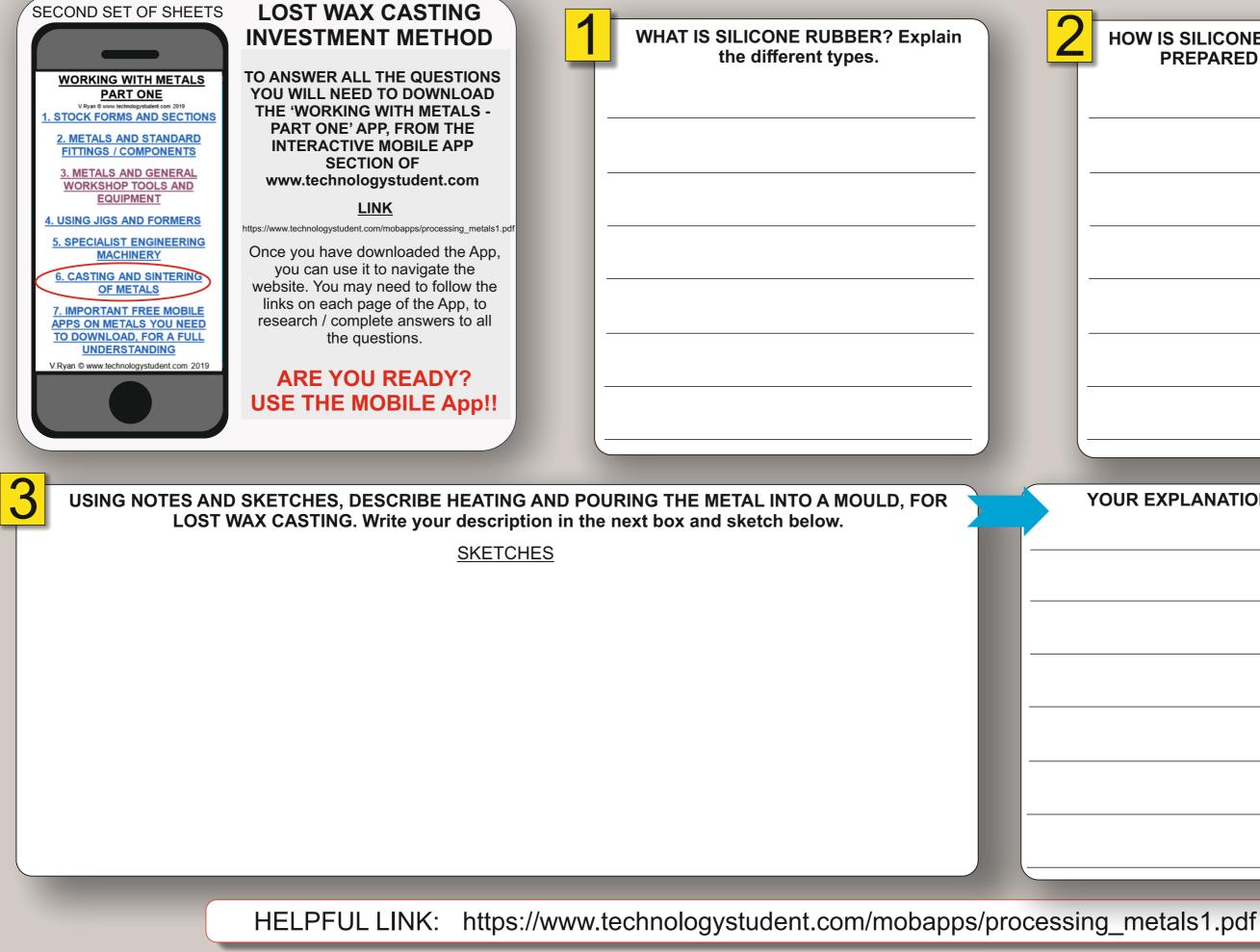
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LABEL THE PARTS OF THE WAX MODEL. THE MODEL WILL BE USED TO FORM A MOULD, FOR LOST WAX CASTING.

DESCRIBE PREPARING THE FLASK. READY FOR CASTING.

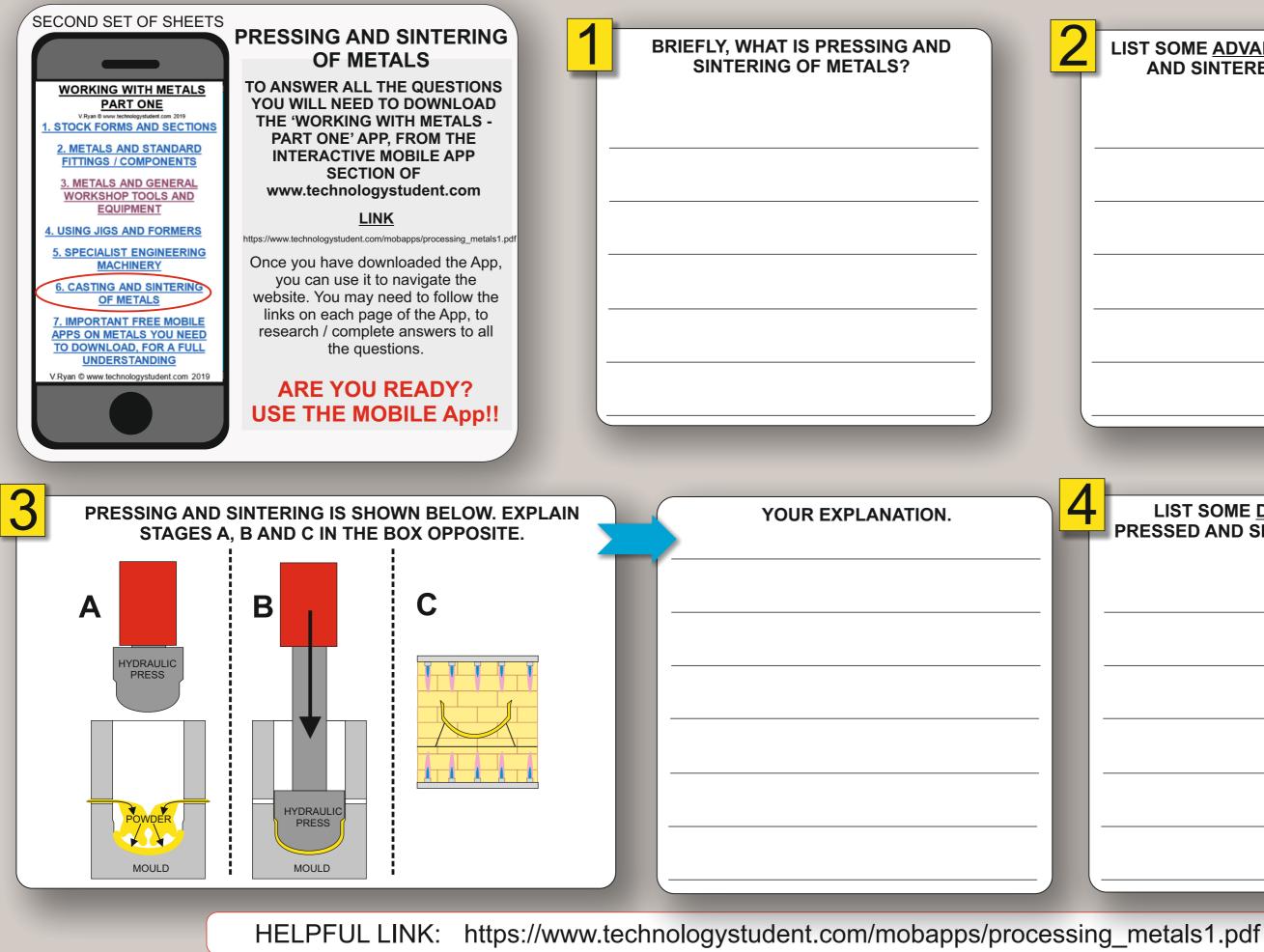
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HOW IS SILICONE RUBBER MIXED AND **PREPARED FOR A MOULD?**

YOUR EXPLANATION / DESCRIPTION

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LIST SOME ADVANTAGES OF PRESSED AND SINTERED COMPONENTS.

LIST SOME DISADVANTAGES OF PRESSED AND SINTERED COMPONENTS