



JOINING METAL INCLUDING TUBE

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'JOINING METAL INCLUDING TUBE' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

https://www.technologystudent.com/mobapps/metal_joints1.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!!**

IMPORTANT - PLEASE NOTE.

THE APP AND SMART LEARNING SHEETS, 'WORKING WITH METALS PART ONE', DEAL COMPREHENSIVELY WITH THE FIRST THREE SUBSECTIONS.

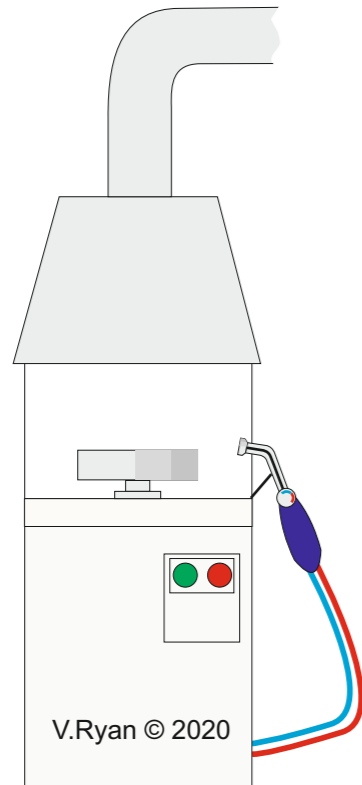
THIS SET OF SMART LEARNING SHEETS COVER:

**BRAZING,
WELDING,
FITTINGS FOR TUBE,
TEMPORARY AND PERMANENT JOINTS FOR TUBE.**

1

IN BASIC TERMS, WHAT IS BRAZING?

2

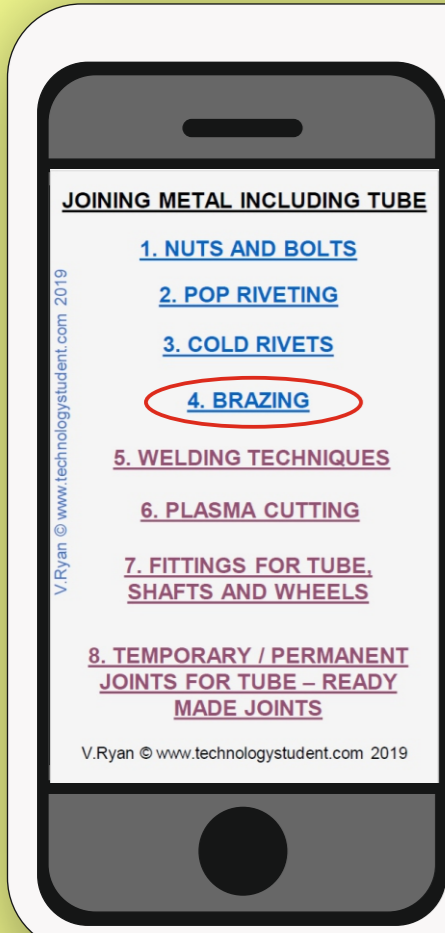


DESCRIBE THE BRAZING HEARTH AND ITS USE, BY ADDING LABELS TO THE DIAGRAM AND NOTES.

3

WHEN TWO PIECES OF SHEET STEEL ARE TO BE JOINED BY BRAZING, HOW ARE PREPARED? (BEFORE HEAT IS APPLIED)

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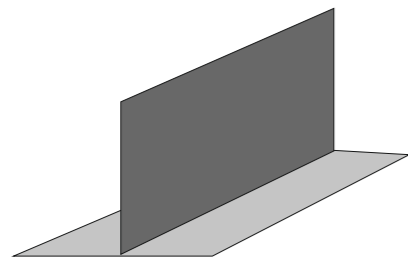
**ARE YOU READY?
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1

USING NOTES AND A SKETCH(S), DESCRIBE HOW A ROTATING TABLE AND FIRE BRICKS, ARE USED TO SET UP TWO PIECES OF SHEET METAL, FOR BRAZING.

2

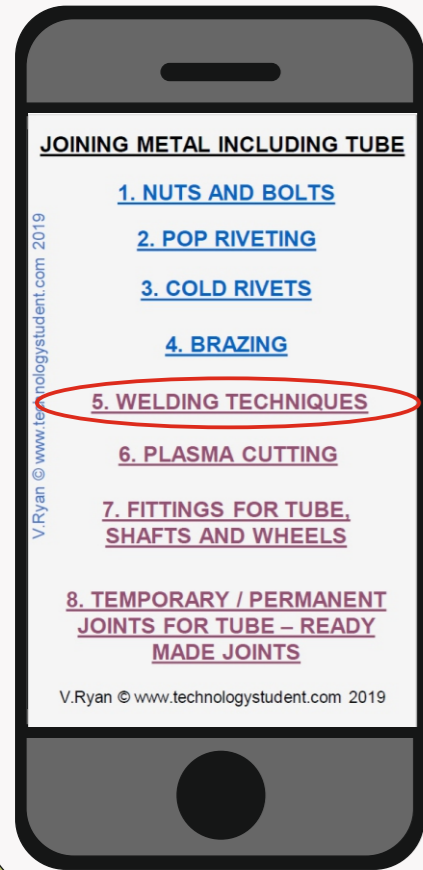
THE TWO PIECES OF SHEET STEEL HAVE BEEN PREPARED FOR BRAZING. USING NOTES AND SKETCHES, DESCRIBE THE PROCESS OF BRAZING.



3

RESEARCH USING THE INTERNET, TO FIND EXAMPLES OF BRAZED PRODUCTS / COMPONENTS. LIST FOUR BELOW.

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GAS WELDING OXYACETYLENE

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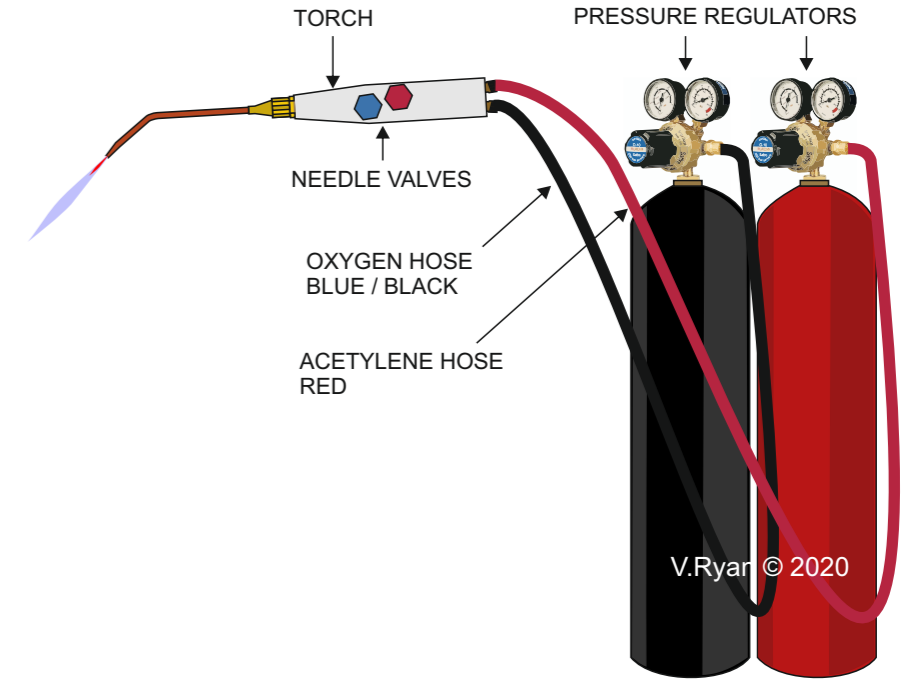
https://www.technologystudent.com/mobapps/metal_joints1.pdf

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1

WHAT IS GAS WELDING (OXYACETYLENE WELDING)?
You can make reference to the diagram, if this helps your explanation.



2

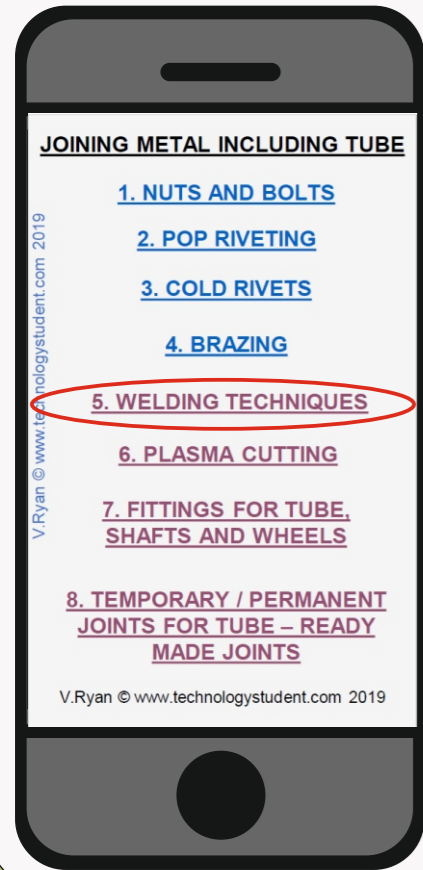
USING NOTES AND SKETCHES, DESCRIBE IGNITING THE ACETYLENE / OXYGEN MIXTURE.

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3

LIST THE PERSONAL SAFETY EQUIPMENT REQUIRED WHEN GAS WELDING.

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GAS WELDING OXYACETYLENE

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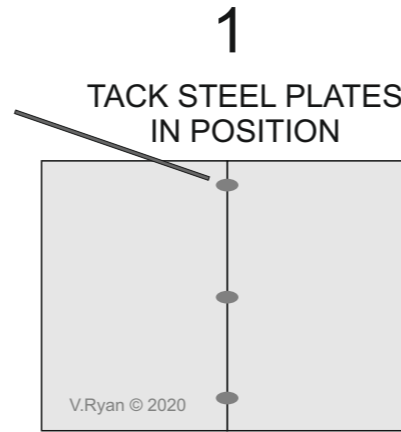
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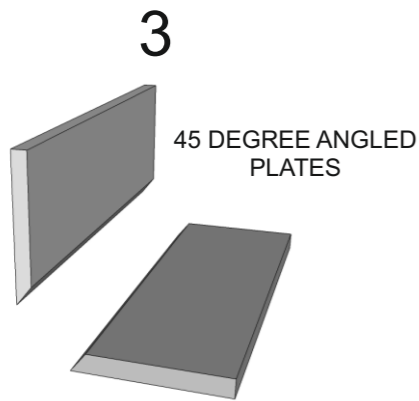
1

USING NOTES AND SKETCHES, DESCRIBE WELDING (OXYACETYLENE WELDING), TWO FLAT STEEL PLATES TOGETHER.



2

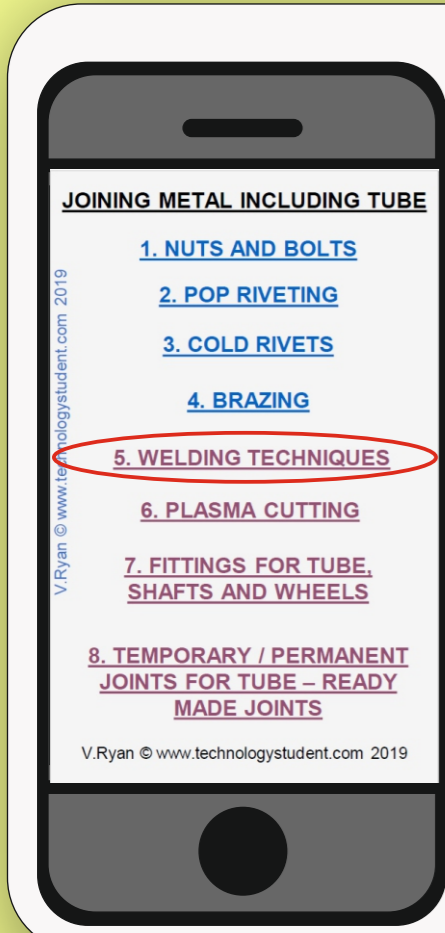
USING NOTES AND SKETCHES, DESCRIBE WELDING TWO FLAT STEEL PLATES AT 90 DEGREES TO EACH OTHER. (OXYACETYLENE WELDING)



3

WHAT IS BRAZE WELDING?

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ELECTRIC ARC AND SPOT WELDING

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1

DESCRIBE ELECTRIC ARC WELDING?

Support your description with a sketch(s) in the next box.

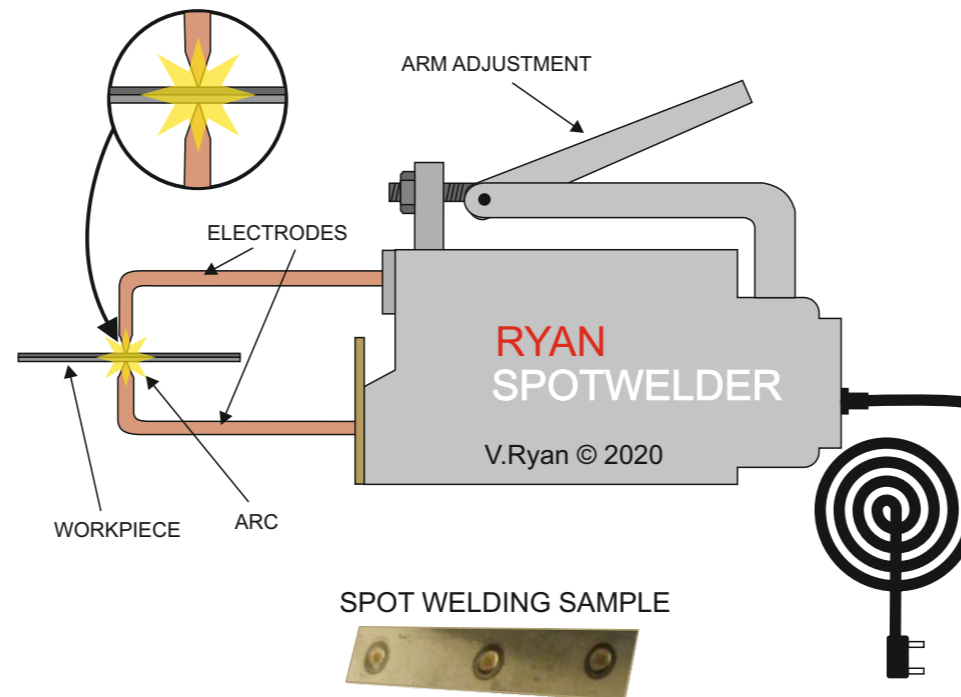


YOUR SKETCH - ELECTRIC ARC WELDING

2

WHAT IS SPOT WELDING?

Make reference to the diagram, if required.



3

WHY IS SPOT WELDING USED BY THE AUTOMOTIVE INDUSTRY?

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MIG AND TIG WELDING

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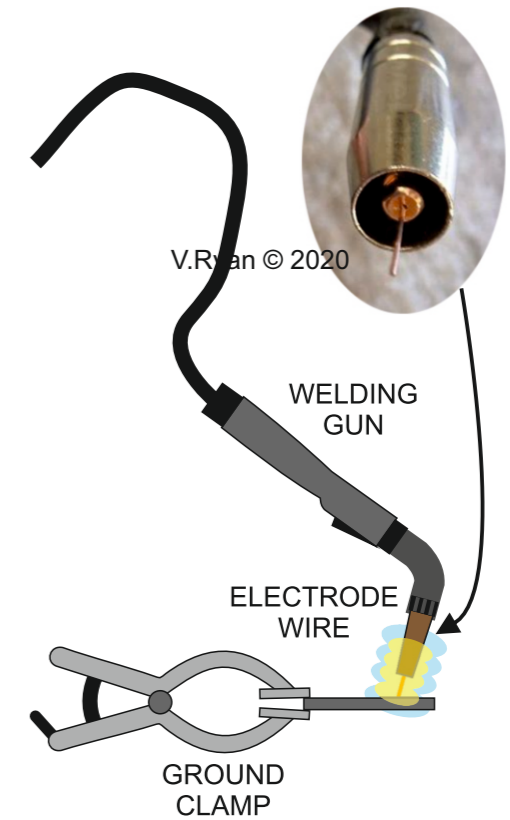
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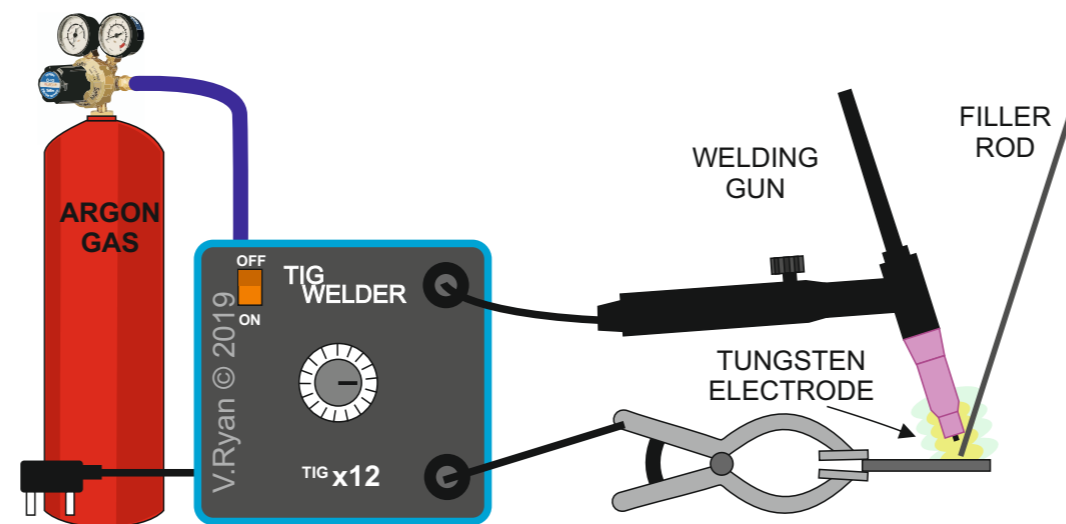
1 DESCRIBE MIG (Metal Inert Gas) WELDING

Make reference to the illustration in the next box.



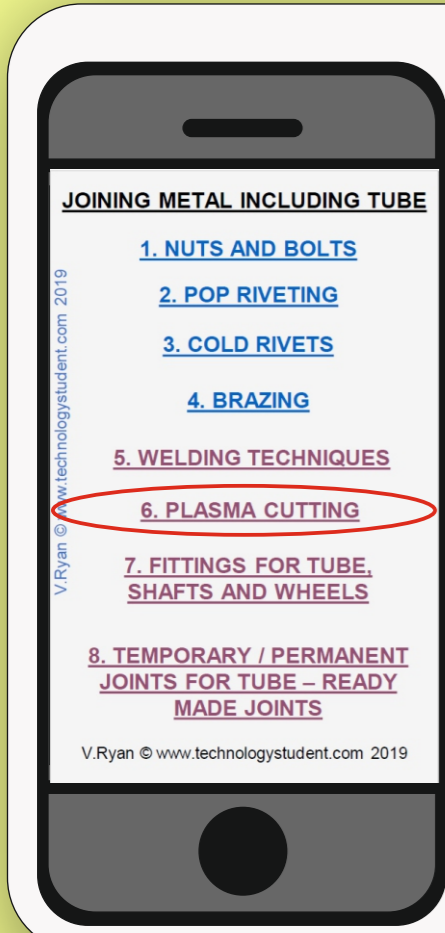
2 DESCRIBE TIG (Tungsten Inert Gas) WELDING.

Make reference to the diagram, if required.



3 WHAT SECTIONS AND METALS ARE BEST FOR TIG WELDING?

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PLASMA CUTTING

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1

DESCRIBE PLASMA CUTTING

Include reference to gases and temperatures.

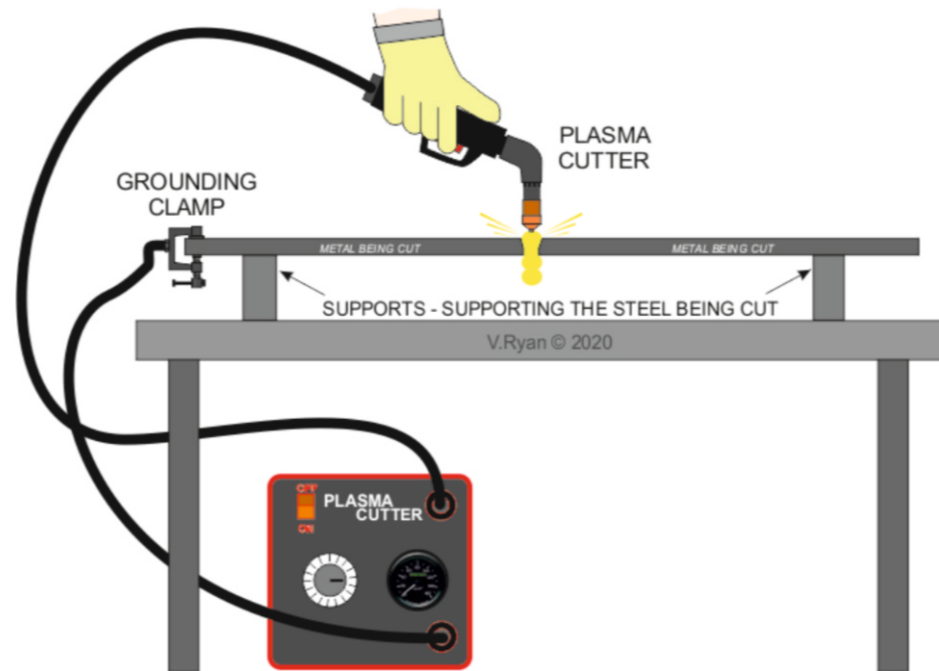
2

WHERE ARE YOU LIKELY TO SEE PLASMA CUTTING TAKING PLACE?

3

DESCRIBE SMALL SCALE PLASMA CUTTING

Make reference to the diagram, if required.



4

HOW DOES LARGE SCALE PLASMA CUTTING, DIFFER FROM SMALL SCALE PLASMA CUTTING?

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FITTINGS FOR TUBE, SHAFTS AND WHEELS

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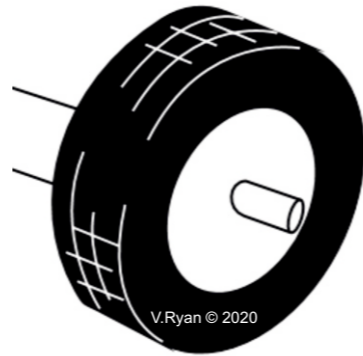
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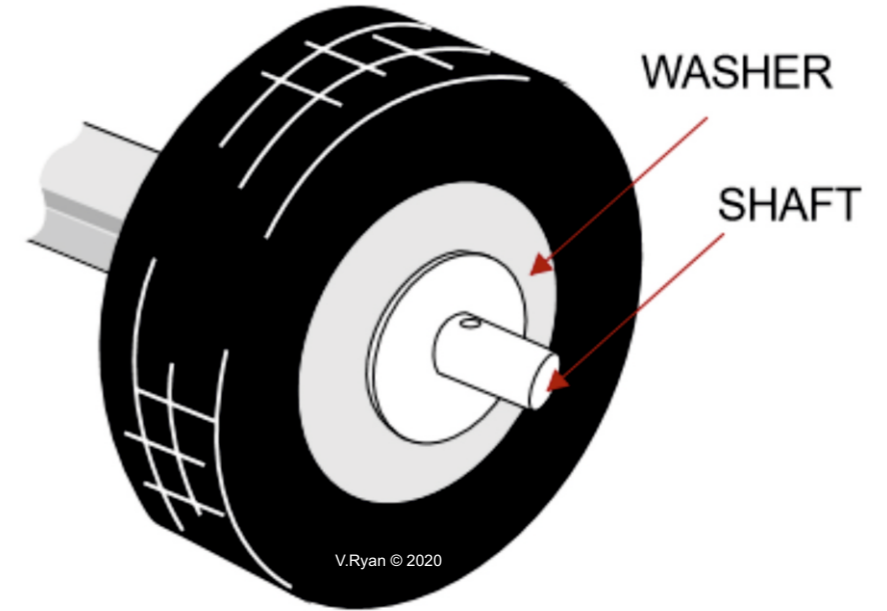
1 SKETCH A PUSH FITTING, SUITABLE FOR SECURING THE WHEEL TO THE SHAFT.



SKETCH

DESCRIBE HOW THE FITTING IS USED.

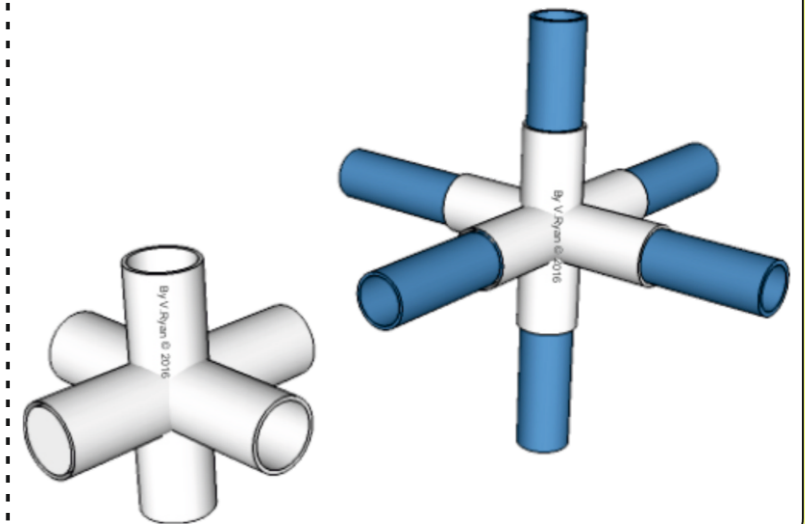
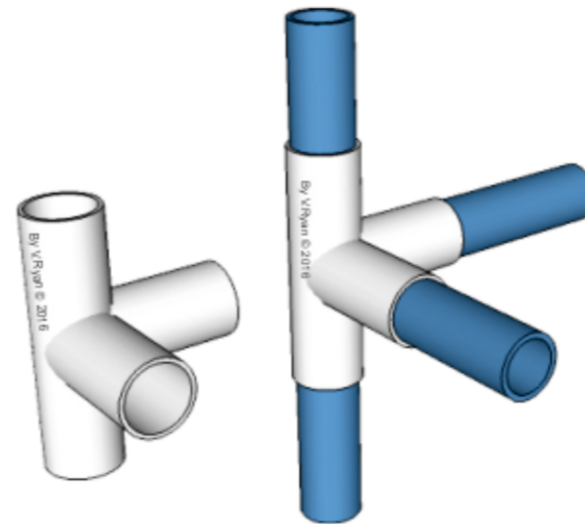
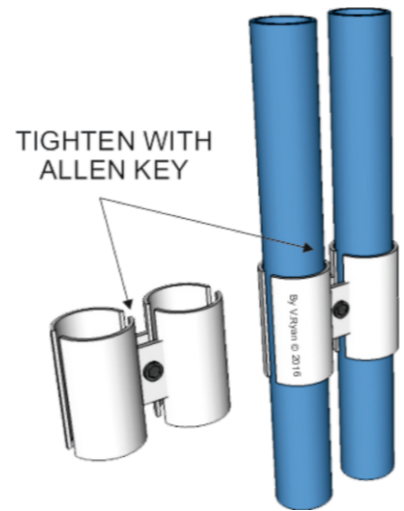
2 SKETCH A 'SPLIT PIN', IN THE CORRECT POSITION, TO HOLD THE WHEEL ON THE SHAFT SECURELY.



3 WHEN ARE LOCKING NUTS LIKE THIS USED? HOW DO THEY WORK?



4 NAME THE THREE TEMPORARY / PERMANENT JOINTS.



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