

CAD AND CAM

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LINK

https://www.technologystudent.com/mobapps/CAD_CAM_MOBILE1.pdf

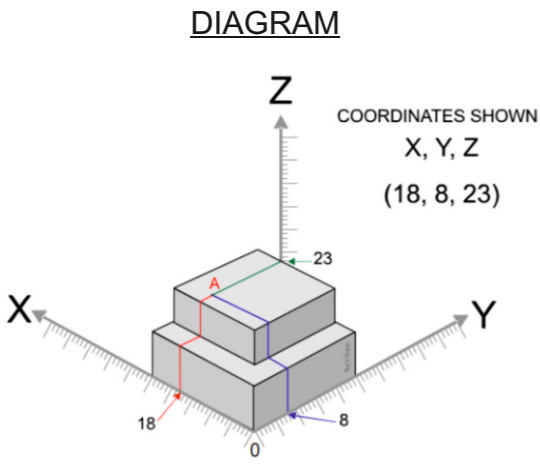
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**ARE YOU READY?
USE THE MOBILE App!!**

1 COMPUTER GENERATED MODELS ARE EXTREMELY USEFUL TO DESIGNERS. DESCRIBE AN EXAMPLE.

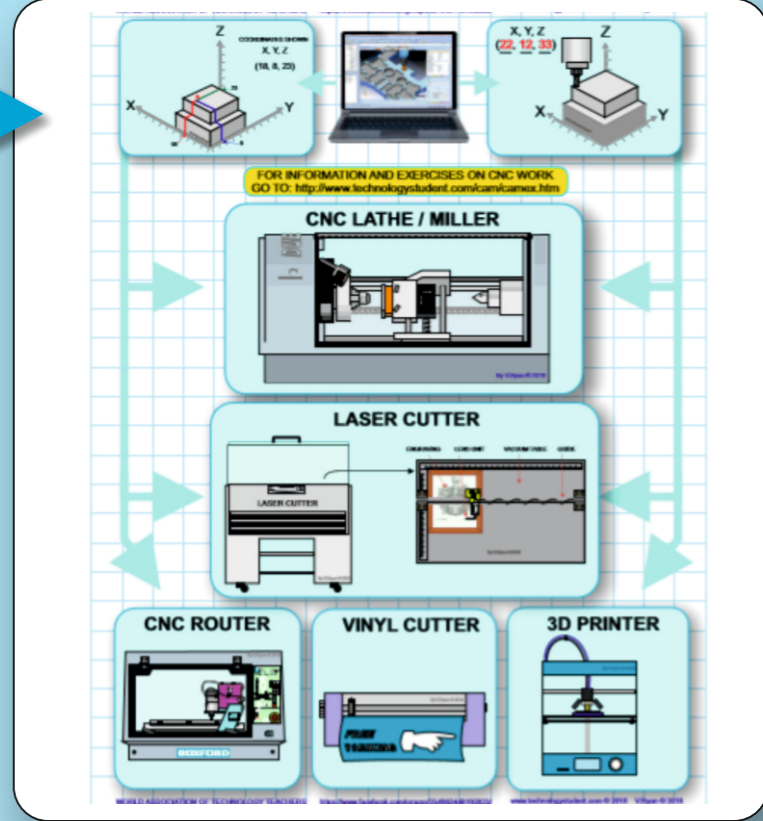
2 DESCRIBE ONE WAY YOU HAVE USED CAD TO HELP DESIGN.

3 WITH THE AID OF THE SKETCH / DIAGRAM - EXPLAIN THE MEANING OF 'CNC'. MAKE REFERENCE TO COORDINATES

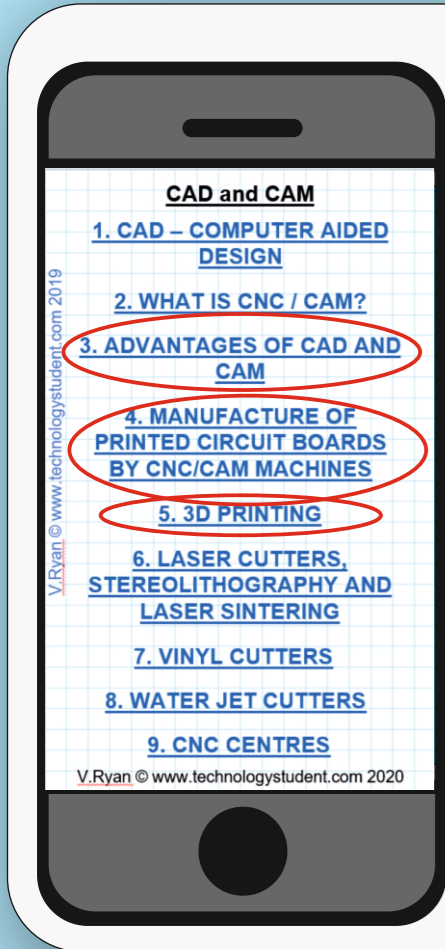


YOUR EXPLANATION

4 A CAD DESIGN IS CONVERTED INTO COORDINATES FOR A CAM MACHINE. WHAT IS 'CAM' LIST THREE 'CAM' MACHINES. (The diagram opposite may be useful)



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1

DESCRIBE THREE ADVANTAGES TO THE DESIGNER, OF USING CAD SOFTWARE.

2

LIST THREE ADVANTAGES OF CAM, TO MANUFACTURING INDUSTRY.

3

CNC MACHINES CAN BE USED TO MANUFACTURE PRINTED CIRCUIT BOARDS (PCBs), FOR ELECTRONICS. DESCRIBE ONE ADVANTAGE AND ONE DISADVANTAGE OF THIS PROCESS

ADVANTAGE

DISADVANTAGE

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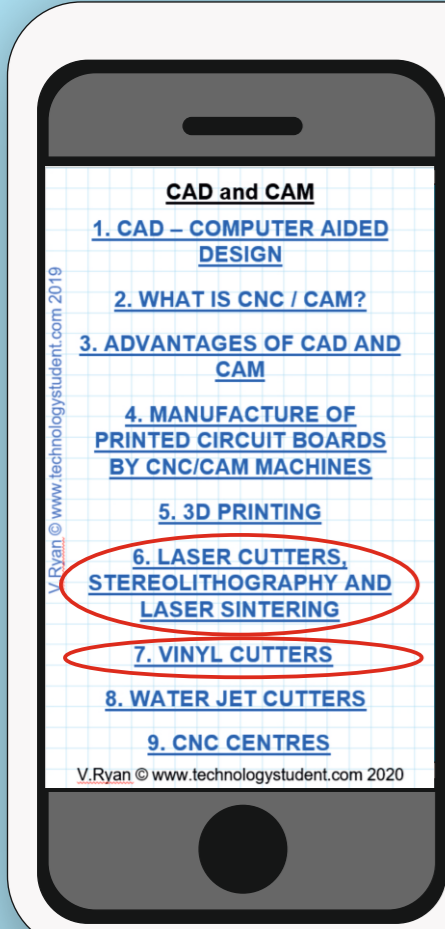
4

WHAT IS 3D PRINTING? BRIEFLY, DESCRIBE THE PROCESS.

5

WHAT IS RAPID PROTOTYPING USING POWDER, RESIN AND A LASER?

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LASER CUTTERS, STEREOLITHOGRAPHY AND LASER SINTERING

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1 BRIEFLY DESCRIBE HOW A LASER CUTTER WORKS.

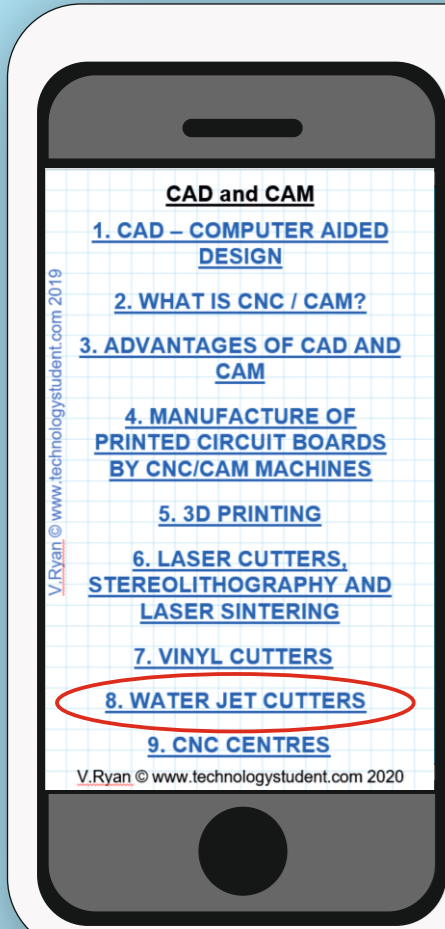
2 LASER CUTTERS CAN 'ETCH'. WHAT IS THE PROCESS CALLED ETCHING?

3 THE DIAGRAM BELOW SHOWS THE PROCESS CALLED STEREOLITHOGRAPHY. IN THE NEXT BOX, EXPLAIN THE PROCESS

YOUR EXPLANATION.

4 WHAT TYPE OF WORK CAN BE ACHIEVED WITH A VINYL CUTTER?

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WATER JET CUTTERS

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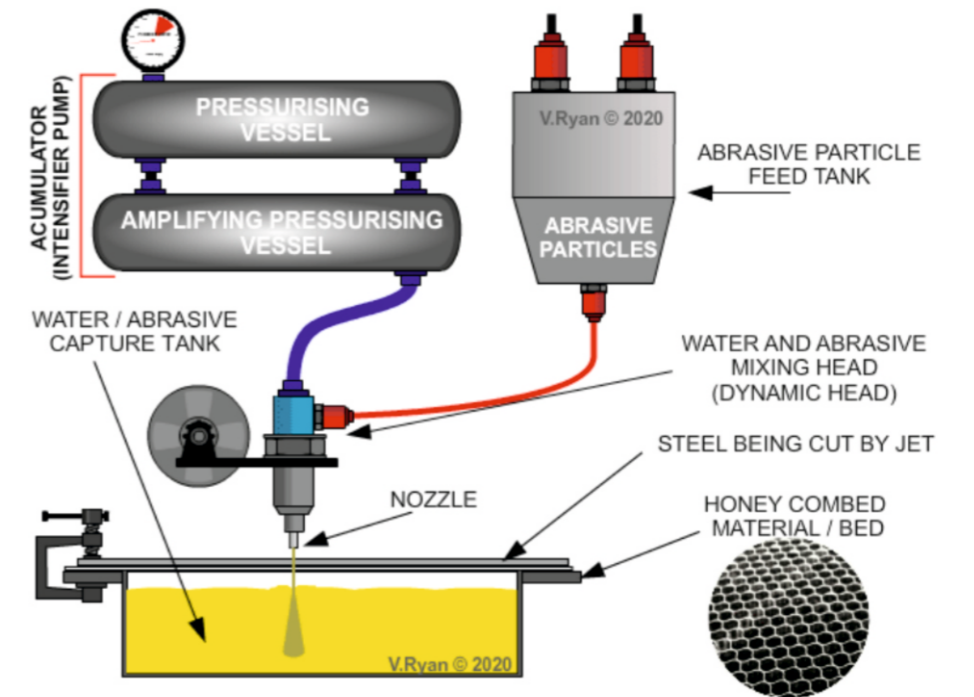
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1

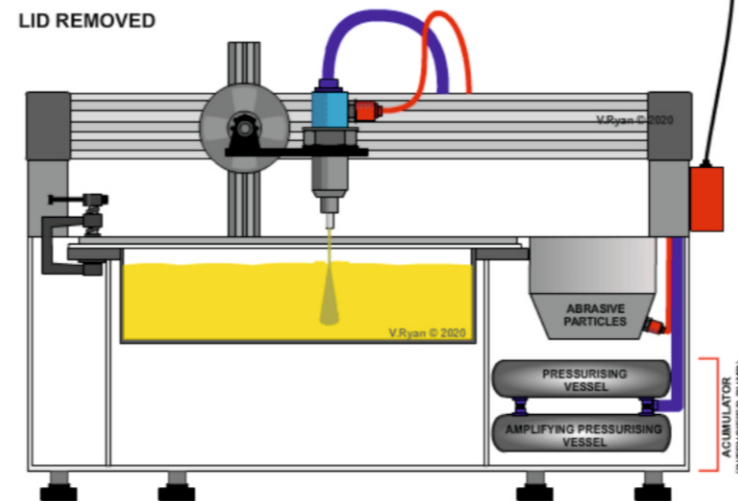
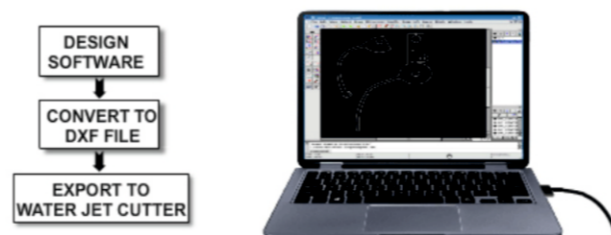
HOW DOES A WATER JET CUTTER WORK?

Make reference to the diagram in the next box



2

WHAT ROLE DOES THE COMPUTER PLAY IN THE USE OF A WATER JET CUTTER?



3

PASTE BELOW, AN IMAGE OF A WATER JET CUT COMPONENT / PRODUCT.

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CNC CENTRES

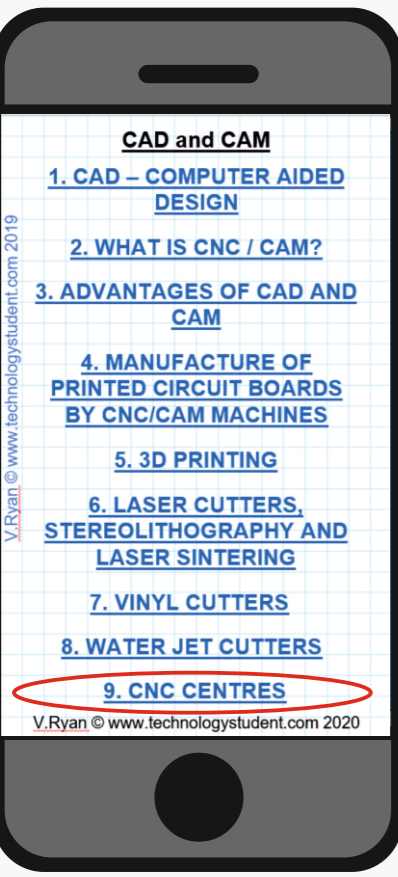
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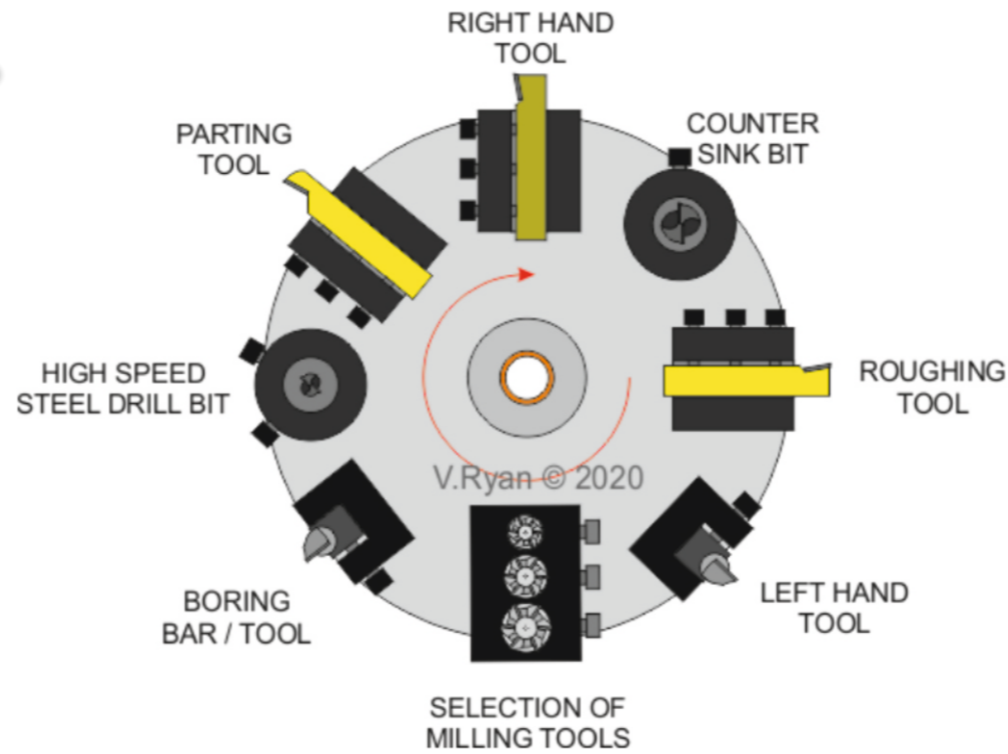
1

BRIEFLY, WHAT IS A CNC CENTRE?

PASTE AN IMAGE OF A TYPICAL CNC CENTRE IN THE SPACE BELOW.

2

NAME AND DESCRIBE THE TYPE OF TOOLING SHOWN IN THE BOX OPPOSITE



3

HOW DOES 'LIVE TOOLING' DIFFER FROM THE TOOLING YOU DESCRIBED IN BOX 2?

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