

Click on the football, for a link to helpful information. Where possible, use notes and labelled sketches in your answers.

CAD / CAM - INTERACTIVE KNOWLEDGE MAP

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

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1. WHAT ARE COMPUTER GENERATED MODELS (CAD)?

Include a few images.



2. WHAT DOES 'CNC' MEAN?



3. EXPLAIN THE ROLE PLAYED BY COORDINATES, IN CNC WORK.

Include a diagram / sketch.



4. LIST FOUR ADVANTAGES AND FOUR DISADVANTAGES OF CNC MACHINES



5. DRAW A LABELLED DIAGRAM OF A TYPICAL CNC ROUTER.



6. SKETCH AND DESCRIBE THE INPUT, PROCESS AND OUTPUT, OF A TYPICAL CNC MACHINE.



7. DESCRIBE A CNC TURNING CENTRE. Paste an image of this type of machine.



8. WHAT IS A VERTICAL AXIS CNC CENTRE? Include an image of a vertical CNC Centre, that has been set up to operate a turret and live tools.



9. DRAW A LABELLED DIAGRAM OF A FILAMENT SPOOL 3D PRINTER.



10. PASTE FOUR IMAGES OF 3D PRINTED PRODUCTS.



11. DESCRIBE STEREOLITHOGRAPHY. Include a diagram.



12. WHAT ARE THE ADVANTAGES AND DISADVANTAGES OF STEREOLITHOGRAPHY?



13. WHAT TYPE OF WORK CAN BE CARRIED OUT BY A LASER CUTTER?

Include two images of products manufactured in this way.



14. WHAT IS A WATER JET CUTTER? Describe its basic operation.



15. EXPLAIN THE USE OF A VINYL CUTTER.

