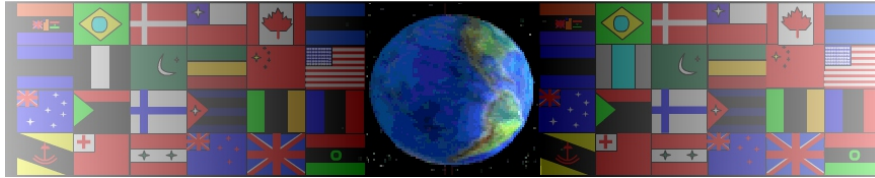


COMPUTER AIDED MANUFACTURE (CAM) COMPUTER AIDED DESIGN (CAD)

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

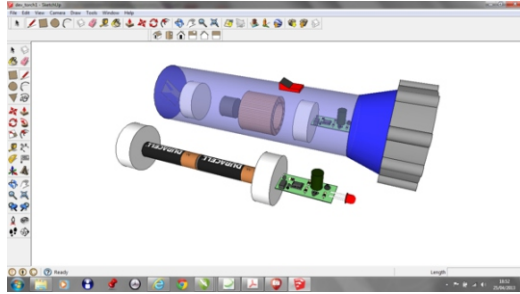
This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

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COMPUTER AIDED DESIGN (CAD)

COMPUTER AIDED DESIGN - CAD

3D design software such as AutoCAD or Sketchup, allow the designer to draw a product in detail.



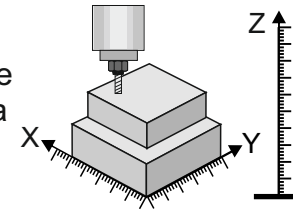
Products can be designed and modified quickly. CAD allows for the testing of prototypes during the design process, without the need to make it.

Courtesy of www.technologystudent.com

COMPUTER AIDED MANUFACTURE (CAM)

COMPUTER AIDED MANUFACTURE CAM

Once a prototype design has been produced, it can be manufactured on a CNC machine or Rapid Prototyping machine.



Computer Aided Manufacture (CAM) has meant that products and components can be made repeatedly to the same high standard. Accuracy of machining is consistently high and machining through CAM is much faster than machining by human control / by hand. Large quantities can be produced 24 hours a day, reducing the final cost/price.

Courtesy of www.technologystudent.com

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Computers are used extensively in the design and manufacture of many products.

1. What is the meaning of CAD? 1 mark

What are the advantages of CAD to a designer? 2 marks

1. What is the meaning of CAM? 1 mark

What are the advantages of CAM to a manufacturer?

2 marks
