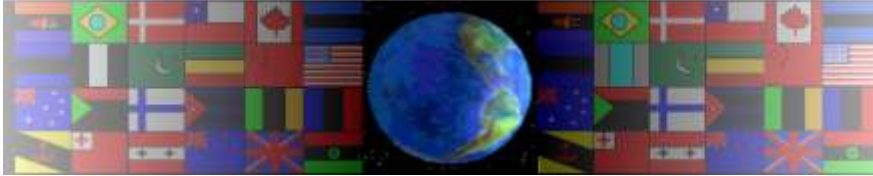


# STRUTS, TIES AND FORCES

V.Ryan © 2000 - 2010

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](http://www.technologystudent.com)) before attempting the design sheet .

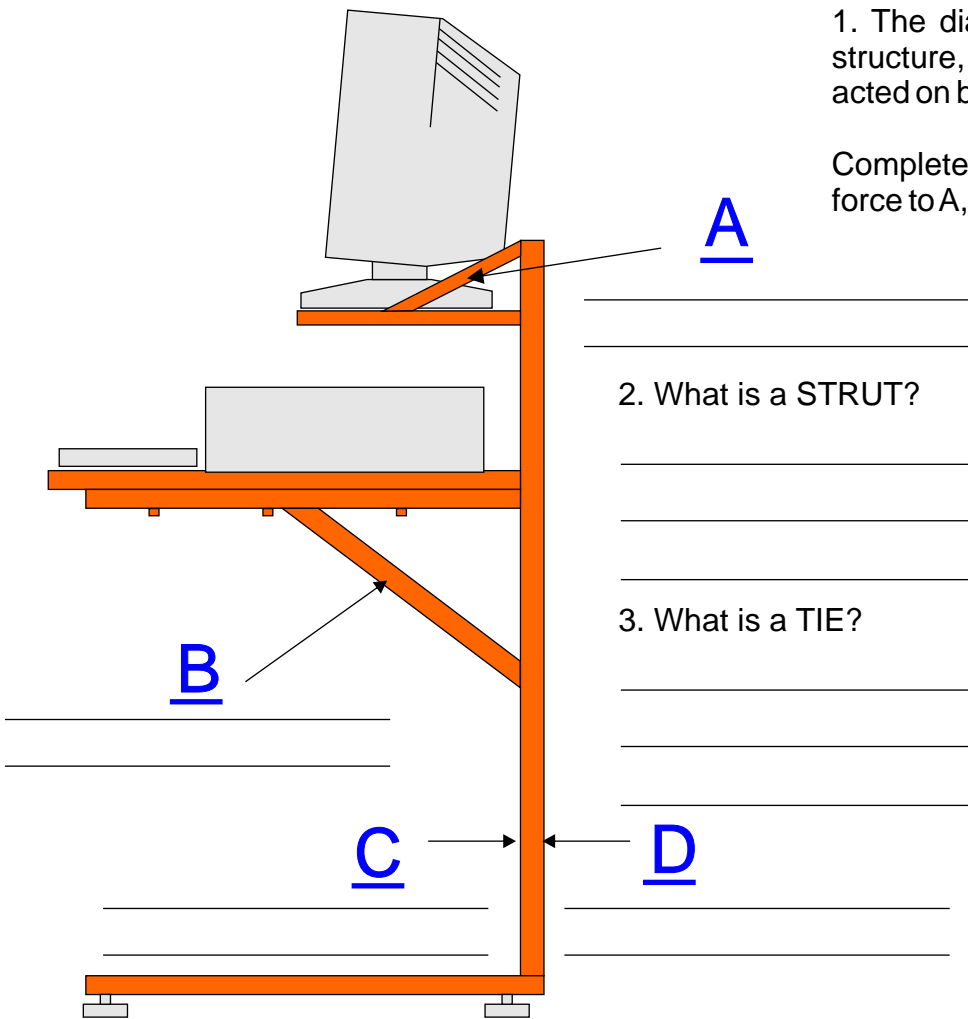
THESE MATERIALS CAN BE PRINTED AND USED BY TEACHERS AND STUDENTS.  
THEY MUST NOT BE EDITED IN ANY WAY OR PLACED ON ANY OTHER MEDIA INCLUDING WEB SITES AND INTRANETS.  
NOT FOR COMMERCIAL USE.  
THIS WORK IS PROTECTED BY COPYRIGHT LAW.  
IT IS ILLEGAL TO DISPLAY THIS WORK ON ANY WEBSITE/MEDIA STORAGE OTHER THAN [www.technologystudent.com](http://www.technologystudent.com)

# FORCES IN ACTION

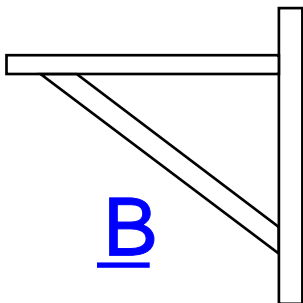
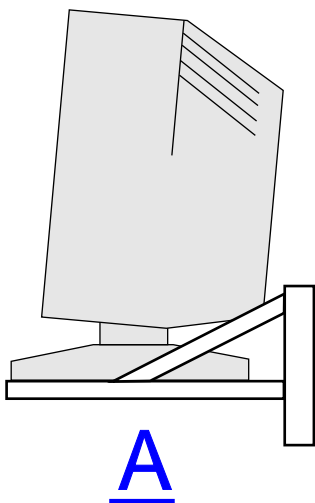
V.Ryan © 2010 World Association of Technology Teachers

1. The diagram of the computer desk is a structure, with parts A, B, C, and D, each acted on by a 'force'.

Complete the diagram by adding the name of force to A, B, C and D



4. The diagrams below, are of parts of the computer desk, that are acted on by different forces. Draw arrows on each of the diagrams, to represent each of the forces, you named in question 1.



C

D



5. Draw a piece of furniture and label the struts and ties. With the aid of more detailed diagrams explain the forces acting on each of the important members/parts.