

BENDING TUBES / PIPES

V.Ryan © 2000 - 2009

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 .

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

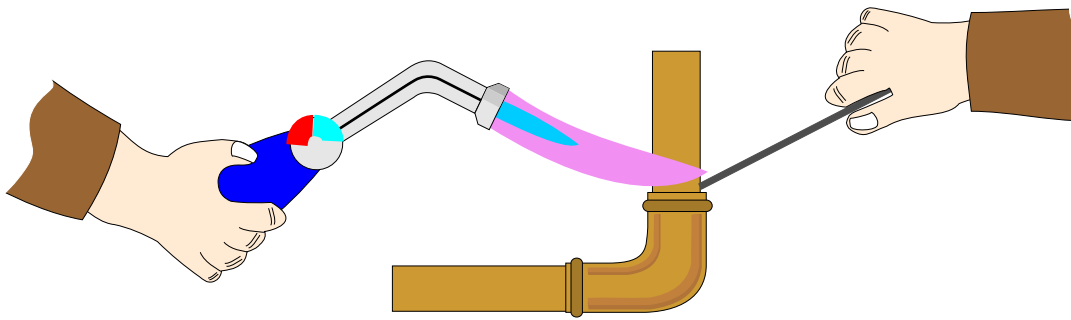
BENDING TUBES / PIPES

V.Ryan © 2009 World Association of Technology Teachers

1. The diagram below shows a spring which is used to 'bend' a tube / pipe, to form a curve. What is likely to happen if a spring is not used?

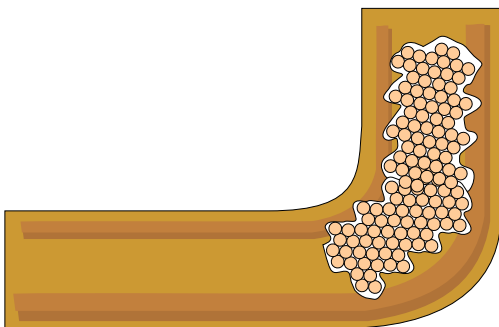


2. If a sharp 90 degree angle is needed, a corner joint is used, as shown below.



Describe / explain the technique shown in the diagram above.

3. A corner / curve can be formed in a pipe without the need for a spring or corner joint. This technique is shown opposite. Although it is not the most accurate way of forming a bend in a pipe, it usually works, reasonably well. Describe / explain the technique:



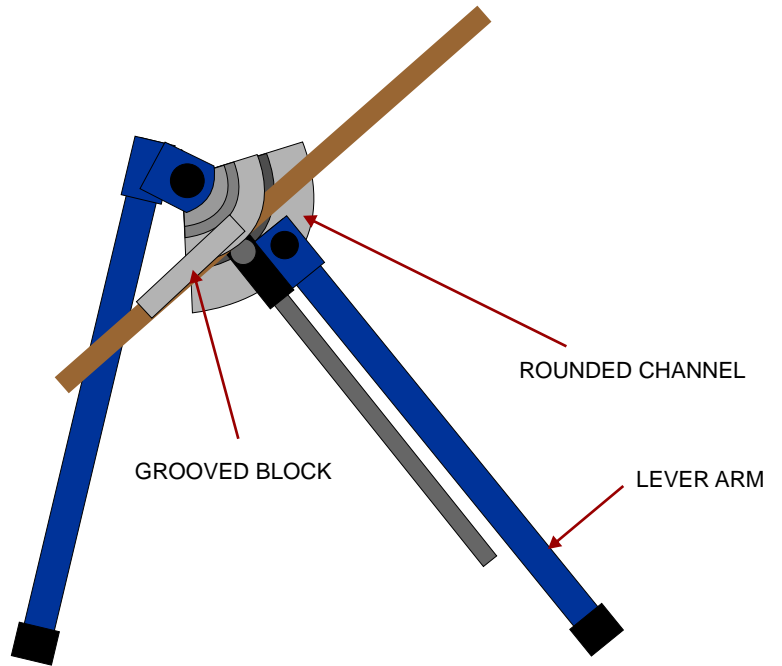
4. Copper pipes are used widely in the home and in most buildings. Describe an example of formed / shaped copper pipe work you have seen.

BENDING TUBES / PIPES

V.Ryan © 2009 World Association of Technology Teachers

5. A pipe bender is seen opposite. It can be used to form copper, aluminium and steel pipes.

In no more than two stages, describe the stages involved in forming pipes using this type of equipment.



DRAWING ONE

NOTES:

DRAWING TWO

NOTES:
