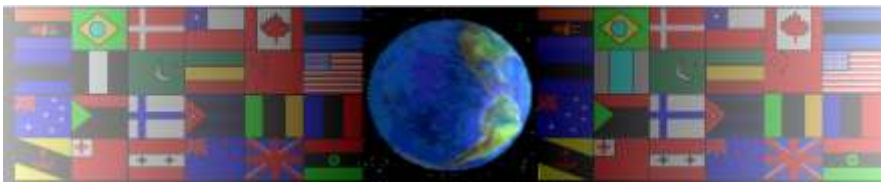
CARBON FIBRE REINFORCED POLYMER (CFRP)

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 .

CARBON FIBRE REINFORCED POLYMER (CFRP)

1. What is Carbon Fibre Reinforced Polymer?

2. Describe two advantages Carbon Fibre Reinforced Polymer has over materials such as GRP and Titanium?

3. Describe a disadvantage of CFRP compared to GRP

4. Describe the structure of a typical piece Carbon Fibre Reinforced Polymer. Include a sketch of a 'weave' of Carbon Fibre textile.

DESCRIPTION:

SKETCH OF WEAVE

5. Describe a practical application of CFRP in the aerospace industry. Include an explanation of why CFRP has been used.

6. List further practical applications of CFRP.

7. Using the internet as a research tool, collect images of practical applications of CFRP. Attach them to this questions sheet, labelling each image.