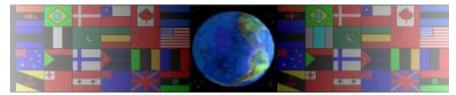
## **BIO-FUELS - USING FAST GROWING WILLOW**

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.

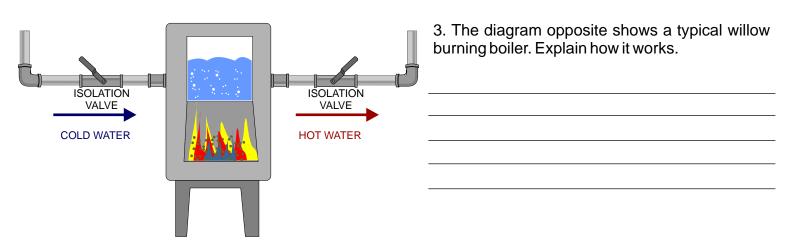
THESE MATERIALS CAN BE PRINTED AND USED BY TEACHERS AND STUDENTS. THEY MUST NOT BE EDITED IN ANY WAY OR PLACED ON ANY OTHER MEDIA INCLUDING WEB SITES AND INTRANETS. NOT FOR COMMERCIAL USE. THIS WORK IS PROTECTED BY COPYRIGHT LAW. IT IS ILLEGAL TO DISPLAY THIS WORK ON ANY WEBSITE/MEDIA STORAGE OTHER THAN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

## **BIO-FUELS - USING FAST GROWING WILLOW**

V.Ryan © 2009 World Association of Technology Teachers

1. Why can fast growing willow be referred to an environmentally friendly (green) fuel?

2. When harvested, the trunk of the willow tree is converted into chippings. Draw a labelled diagram that shows this process.



4. What are the disadvantages of having a willow burning boiler, compared to a gas or oil burning boiler? Consider the following points before answering the question.

The cost of willow. Feeding the fuel into the boiler compared to gas or oil. Finding a local supplier of willow. Cleaning the boiler.

5. Would you consider buying a willow burning boiler? Explain your answer.