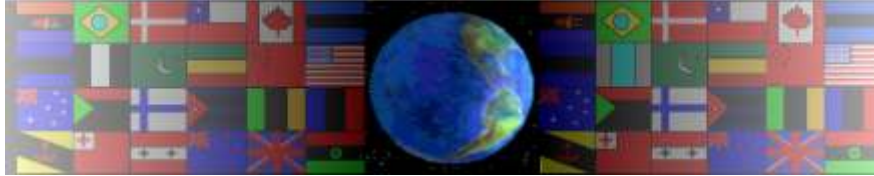


BIO-FUELS - ETHANOL

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On behalf of The World Association of Technology Teachers

W.A.T.T.



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1. Complete the passage below by adding the missing words/phrases, in the correct order.

Ethanol (_____) often known as _____ can be used as an environmentally _____ fuel. _____ is currently the worlds largest producer having developed its processing industry since the 1970s. Brazil uses ethanol as a replacement fuel for _____ and _____. Brazil has reduced its reliance on fossil fuels such oil through its enthusiastic use of ethanol. Currently _____ of Brazils 'liquid' fuel usage is ethanol based.

However, there is a negative side. In Brazil ethanol is processed from _____. Brazil is a vast country and it has the land area to grow thousands of acres of this crop. However, it has been claimed that _____ areas have been cut down to provide the land required for this from of agriculture . In the USA _____ is being used to produce starch. This can also be processed to give ethanol.

sugar cane petrol alcohol friendly diesel ethyl alcohol
forested Brazil maize twenty percent

2. The stages of processing sugar cane, so that eventually ethanol is produced, is seen in a series of diagrams, shown below. Write explanatory notes alongside each of the diagrams.

