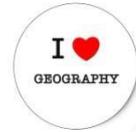




Is hydrogen the future?



EXTRACT A: CARS THAT PRODUCE WATER!

Hydrogen is the most common element in the universe, but it is usually found combined with other elements such as carbon and oxygen. Hydrogen can be separated from the carbon and oxygen and then be used to power cars instead of using oil which is going to run out. There are no harmful gases that come out of the exhaust of a hydrogen car; the only thing that comes out is pure water! To separate hydrogen from carbon and oxygen requires energy but renewable energy such as solar and wind power can be used. Traditional oil/petrol cars release carbon dioxide which is a greenhouse gas. Greenhouse gases trap heat and this can cause global warming. Global warming can cause an increase in skin cancers, sea levels to rise, flooding, more extreme storms and much more.



EXERCISE 1: Read extract A above and answer the following questions in the space provided.

- A) What element is very common in the universe? _____
- B) What elements would you find hydrogen combined with?

- C) When separated hydrogen could be an alternative to which fuel in order to power cars? _____
- D) What comes out of the exhaust of a hydrogen car? _____
- E) What energy will they use to separate the hydrogen from the carbon and oxygen? _____
- F) Traditional petrol cars release which greenhouse gas?

- G) Greenhouse gases trap what inside the earth? _____
- H) What will happen globally if more greenhouse gases are added to the atmosphere? _____
- I) Name two disadvantages of global warming.

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MARKS

