

## Unit 4 – A dream of a hydrogen economy

### Answer the questions:

1. What consequences could switching from fossil fuels to hydrogen lead to? (1)
2. What were the government investments aimed at? (1)
3. When will the hydrogen economy become reality? (2)
4. Whose reports is the prediction in Q3 based on? (2)
5. What is the cheapest way today to produce hydrogen? And what are its disadvantages? (3)
6. What other ways are used to produce hydrogen? Are they successful? (4)
7. What is even a bigger challenge than hydrogen production? (5)
8. Compare the parameters of hydrogen and gasoline (5)
9. How could these problems be overcome? (5)
10. What are fuel cells and how have they been used so far? (6)
11. What obstacles do hydrogen powered cars face? (7)
12. What infrastructure would be necessary for the hydrogen economy? (8)
13. What does „a chicken-and-egg problem“ mean? (8)
14. Who is Jo Ann Milliken and what does she say about energy research? (9)
15. What are governments expected to do? (10)

### Definitions

- the development of a country or region that does not use more natural resources than can be replaced and so does not harm the environment
- fishing that damages a river or an area of sea because too many fish are caught
- the process of removing the trees from an area of land
- the act of putting new trees into a place where the original trees have been cut
- liquid waste such as sewage human waste or waste from a factory
- a large hole in the ground where waste from people's homes or from industry is buried
- a substance that is harmful to the environment
- a machine that destroys waste or other material by burning it
- activities by a business or other organization that are intended to show that the organization is concerned about the environment
- to reduce the amount of something or the number of things, natural resources etc.



### Exercise 1.

Choose the right alternative.

1. In spite / Despite the noise we managed to sleep.
2. Even so / Even though the plane took off late, we still reached our destination on time.
3. We moved quietly around the flat, so as not to / in order to wake the baby.
4. He had a terrible cold. Even so / Even though , he insisted on going swimming.
5. He looked at me as if / as although I were crazy.
6. Even if / Even though I became a millionaire, I would carry on working.
7. Egypt was so / such an interesting country that we plan to go back next year.
8. Since / Therefore it was getting dark she decided to take a taxi home.

### Exercise 2.

Choose the right alternative.

1. We arrived late because of / due the traffic.
2. It was a lovely day. However / Although , we had to stay indoors and paint the living room.
3. Though / Even they were going on holiday for just a week she took two suitcases.
4. They found him guilty however / despite the fact there was very little evidence.
5. He would rather spend his money on CDs as / than on clothes.
6. The exam was really tough. He managed, despite / nevertheless , to come top of the class.
7. I'll go to the party as long / provided you go too.
8. I went to the party. It wasn't much fun, although / though.

### Task 1.

Read the following paragraph and put each of the following linking words or phrases in the gaps.

<i>In contrast</i>	<i>At the same time</i>	<i>On the contrary</i>
<i>On the other hand</i>	<i>A case in point</i>	<i>Both</i> <i>Yet</i> <i>Furthermore</i>
<i>Unlike</i>	<i>an example of this</i>	<i>Despite/In spite of</i>

The McNuggets' menu is hardly an example of healthy eating. <sup>1</sup> \_\_\_\_\_, it offers a choice of everything that should normally be avoided. The fishburger is particularly high in fat, with added salt and sugar. <sup>2</sup> \_\_\_\_\_, the College refectory, whose menu was completely revised early this century, offers much more nutritious food. <sup>3</sup> \_\_\_\_\_, its kitchens and the way food is caught and prepared have been transformed by a revolutionary new chef. <sup>4</sup> \_\_\_\_\_, the decor and pretensions of the refectory are calculated to appeal to the serious academic rather than the six-year old child. <sup>5</sup> \_\_\_\_\_ it is not uncommon in McNuggets to enter a restaurant and find yourself in the middle of a large birthday party, with music, games and food out of all proportion to the number of partygoers. <sup>6</sup> \_\_\_\_\_ is the McBanquet offered to ten year olds: it caters for ten guests, has ten times too much food and lasts ten hours.

<sup>7</sup> \_\_\_\_\_ McNuggets and the College refectory have undergone many changes since the millennium. Some say that College management completed the work started by the fast food chains in the last century by destroying what was left of the traditional English puddings. <sup>8</sup> \_\_\_\_\_, according to others the new in-house catering team has enhanced and extended the health value and interest of the lunch menu with their exciting new organic options. The Quorn and Vegetable Bake, served on Wednesdays, is <sup>9</sup> \_\_\_\_\_.

<sup>10</sup> \_\_\_\_\_ McNuggets, the College refectory seems to have quietly and steadily transformed itself into an elegant, spacious and modern cafeteria, seamlessly combining ancient and modern. The cashier's desk at the far end of the servery is a perfect illustration of this point. <sup>11</sup> \_\_\_\_\_ their differences, both eateries offer the hungry visitor much that is stimulating and should be visited at least once, if only for reflection and contrast, by all students of Education.

**Conditionals – exercises**

**1. Put each verb in brackets into an appropriate verb form.**

- a) Now we're lost! If you .....(write down) the directions, this (not/happen).
- b) Why don't we emigrate? If we ..... (live) in Australia, at least the weather ..... (be) better!
- c) Thanks to Dr Jones, I'm still alive! If it ..... (not/be) for her, I ..... (be) dead for certain.
- d) What a terrible thing to happen! Just think, if we ..... (not/miss) the plane, we ..... (kill) in the crash.
- e) If you'd told me it was a surprise party, I ..... (say) anything to Uncle Dave!
- f) If I ..... (had) your tools, I wouldn't have been able to fix the car.

**2. Rewrite each sentence three times so that it contains the word in capitals.**

- a) We won't go away if the weather is bad.  
 ..... UNLESS  
 ..... ONLY  
 ..... STAY
- b) If they offered you the job, would you accept?  
 ..... WERE TO  
 ..... SHOULD  
 ..... HAPPENED
- c) Without your help, I would have given up years ago.  
 ..... HADN'T BEEN  
 ..... BUT  
 ..... HADN'T HELPED
- d) I'll lend you the money on condition that you pay it back next week.  
 ..... PROVIDED  
 ..... LONG  
 ..... ONLY

**3. Complete the text by writing one word in each space.**

Mr Jeffries, I have decided against a prison sentence in your case. You may walk free from this court on (1) ..... that you report to Chesham police station every Friday for the next six months. Should you fail to (2) ..... so, you will be given one warning; and if you persist (3) ..... failing to meet this obligation, you will return to this court for a harsher sentence. (4) ..... you can present good reason why you were unable to report to the station, you will (5) ..... yourself in severe trouble. If you are (6) ..... to attend because of illness, please note that a medical certificate must be produced, signed by your doctor, proving your state of health. You should realise that (7) ..... for your previous good conduct, I would (8) ..... had no hesitation in imposing a prison sentence. And I shall not forget that if your friend had (9) ..... intervened in the fight, you might (10) ..... seriously injured the defendant.

**4. Complete the second sentence so that it has a similar meaning to the first sentence, using the word given. Do not change the word given.**

- a) If you are in London by any chance, come and see me. **happen**  
 If you .....come and see me.
- b) The fire was brought under control thanks to the night-watchman. **for**  
 If it hadn't .....got out of control.
- c) Dick is in prison because a detective recognised him. **if**  
 Dick .....wouldn't recognised him.
- d) I am not tall enough to reach the shelf. **taller**  
 If I .....reach the shelf.