ATAR Chemistry – Unit 1 & 2

Note:

Use of notes allowed.

Notes must be your own work.

Hand your notes in with this assessment

Research Assignment 3 - Quiz

Fuel Sources

Name:

Notes : \_\_\_\_/ 5 Test Score: /28 Total \_\_\_\_\_\_\_\_\_\_\_\_/ 33

*In answering these questions, do not use exactly the same words as in your research.*

1. Briefly describe how fossil fuels are formed and the timescale it takes? **[3 marks]**

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1. Explain one similarity and one difference in the formation process of biofuels and fossil fuels **[2 marks]**

Similarity: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Difference: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Chemical structure**: [ 4 marks]**
2. Draw the chemical structure of one type of fossil fuel and name it . (2)
3. Draw the chemical structure of a typical biofuel and name the type of fuel (2)

1. With the aid of a **diagram** explain how petrol is obtained from crude oil: [5]

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1. Fracking : **(8 marks)**

a) With the aid of a diagram, briefly explain the process of fracking, . (5)

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b) How do oil and gas companies report to protect the water supply (1) **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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1. Discuss the environmental concerns for this process (2)

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1. Choose one question to discuss **[ 6 marks]**
2. Discuss whether ethanol is a viable substitute for petrol

OR

1. Discuss whether biodiesel is viable substitute for diesel.

Your answer should include comparison of :

* + energy output
  + Environmental effects and emissions during production.
  + Environmental effects and emissions during use

There should be at least 6 clear points in your discussion, including a summary point.

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