Grade Nine Guides



Exam questions per topic

Aiming at grade 8/9



Answers in No Waffle GCSE videos :)

Organic chemistry

Answers in No Waffle GCSE videos :)

[2 marks	Compare ethane with ethene. You should refer to: • their structure and bonding • their reactions.	Structure and bonding • both are hydrocarbons • both contain two carbon atoms (per molecule) • ethane contains six hydrogen atoms (per molecule) • (but) ethene contains four hydrogen atoms (per molecule) • both have covalent bonds • ethane contains a single C—C bond • (but) ethene contains a double bond • both contain C—H bonds • both small molecules Reactions • both react with oxygen in complete combustion reactions • both react with oxygen in incomplete combustion reactions • to produce water and carbon dioxide • both react with oxygen in incomplete combustion reactions • to produce water, carbon monoxide and carbon • incomplete combustion is more likely with ethene • to produce water, carbon monoxide and carbon • incomplete combustion is more likely with ethene • ethene decolourises bromine water • (but) ethane does not decolourise bromine water • ethene is more reactive (than ethane) • ethene can react with hydrogen (to produce ethanol) • ethene can react with halogens (to produce ethanol) • ethene can react with halogens (to produce ethanol) • ethene can react with halogens (to produce halogenoalkanes) • ethe	
[3 marks [2] [2] [2]	Describe how ethanol is produced from sugar solution. Give the name of this process. Explain how carbon monoxide is produced when petrol is burned in car engines. Suggest two reasons why the maximum allowed percentage of carbon monoxide has been decreased for newer cars.		
*	Give two effects of atmospheric pollution which are reduced by using catalytic converters. [2 marks]		

 Explain how a catalyst speeds up a reaction:

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