## Grade Nine Guides



## Exam questions per topic

Aiming at grade 8/9



## Answers in No Waffle GCSE videos :)

Chemical changes Required practical 1: making salts	<ul> <li>Write an ionic equation for the neutralisation of an acid and an alkali [2]</li> <li>Required practical: how to prepare a salt from insoluble metal carbonate/ oxide an acid;</li> <li>[A] Describe a method for making pure crystals of copper sulphate from copper carbonate and dilute sulfuric acid.</li> </ul>	
Required practical 2:neutralisation [titration]	<ul> <li>Required practical: how to prepare a salt from soluble metal carbonate/ oxide and acid</li> <li>B] Describe a method for making crystals of potassium chloride from potassium hydroxide and hydrochloric acid [titration]</li> </ul>	
Required practical 3: electrolysis	<ul> <li>C: Explain why the student should use a pipette to measure the dilute sulfuric acid and a box burette to measure the sodium hydroxide solution.</li> <li>[2 marks]</li> <li>Required practical to: electrolysis</li> <li>[6]</li> </ul>	

## Answers in No Waffle GCSE videos :)

<ul> <li>Explain what happens at each electrolysis of aluminium oxide</li> <li>Explain why a mixture is used as the electrolyte instead of using only aluminium oxide.</li> <li>Explain why the positive electrode must be continually replaced.</li> <li>What are the differences between strong and weak acids</li> <li>What is the differences between nor low concentrations of acids</li> <li>Explain why the plot of an acid depends on: the strength of the acid, the concentration of the acid the concentration of the acid the concentration of the acid</li> <li>Dilute hydrochloric acid is a strong acid. Explain why an acid can be described as both strong and dilute.</li> <li>What is the difference between a chemical cell and an electrolyte is the acid and electrolyte is the strong and dilute.</li> <li>What is the difference between a chemical cell and an electrolyte is the strong and dilute.</li> <li>Explain why the excess hydrogen</li> </ul>	[2] [4]	<ul> <li>Suggest how in electrolysis the students could find the total collected</li> <li>Compare the use of nickel and platinum for electrodes in plugs</li> </ul>	
<ul> <li>electrolyte instead of using only aluminium oxide.</li> <li>[2] <ul> <li>Explain why the positive electrode must be continually replaced.</li> </ul> </li> <li>What are the differences between strong and weak acids</li> <li>[2] <ul> <li>What is the difference between high and low concentrations of acids</li> <li>[2]</li> <li>Explain why the pH of an acid depends on: the strength of the acid, the concentration of the acid</li> </ul> </li> <li>Dilute hydrochloric acid is a strong acid. Explain why an acid can be described as both strong and dilute.</li> <li>[2] marks]</li> <li>What is the difference between a chemical cell and an electrolyte</li> <li>[2]</li> </ul>		electrode during the electrolysis of	
must be continually replaced.          [3]       >       What are the differences between strong and weak acids         [2]       >       What is the difference between high and low concentrations of acids         [2]       >       Explain why the pH of an acid depends on: the strength of the acid, the concentration of the acid         [4]       >       Dilute hydrochloric acid is a strong acid. Explain why an acid can be described as both strong and dilute.         [2] marks]       >       What is the difference between a chemical cell and an electrolyte		electrolyte instead of using only	
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chemical cell and an electrolyte [2]		acid. Explain why an acid can be described as both strong and dilute.	
Explain why the excess hydrogen	[2]	chemical cell and an electrolyte	
	^	Explain why the excess hydrogen	

must be burned off

[1]