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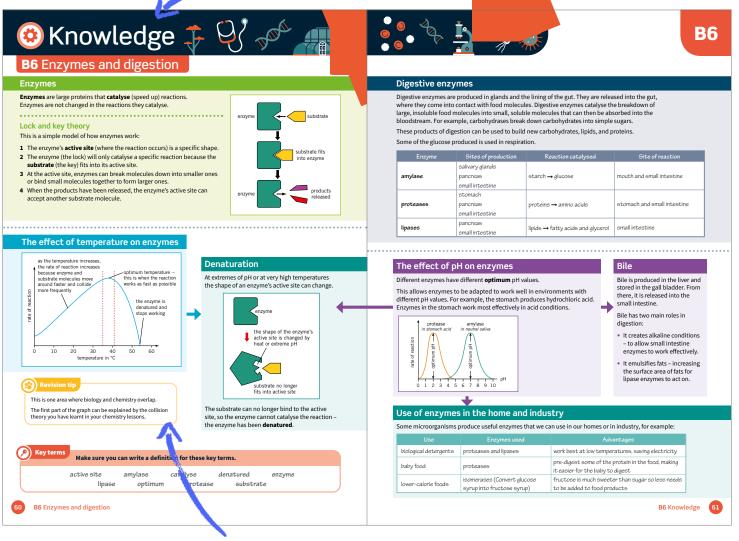




International GCSE Biology Revision Guide



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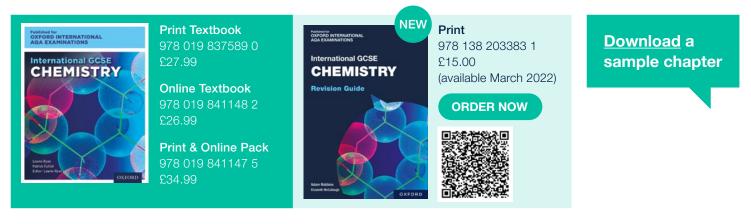
International GCSE Chemistry Revision Guide



Interleaved retrieval questions check that knowledge is secure and improve long-term retention

| Learn the answers to the questions below then cover the answers column with a piece of paper and write as many as you can. Check and repeat. | | | | Previous questions | | Answers | | |
|---|--|---|---|--|--|---|--|--|
| | C5 questions | Answers | 0 | What is the relative mass of a proton | , | P 1 | | |
| | | | 0 | What is the relative mass of a neutron | 1? | per her | | |
| W | /hat is electrolysis? | process of using electricity to extract elements from a compound | 3 | What is the relative mass of an electro | ron? 0 | | | |
| w | /hat is an electrode? | the end of a circuit which is placed in the electrolyte | 0 | How are covalent bonds formed? | ថ្មី ៦ឆ្នាំ atoms sharing | | ctrons | |
| w | /hat is an electrolyte? | the liquid or solution that electrolysis is carried out in | 6 | How many electrons go into a covale | w = | | d, 4 for a double bond | |
| w | /hat is the cathode? | the negative electrode | 6 | Between which kinds of atom does co bonding occur? | es covalent | | | |
| w | /hat is the anode? | the positive electrode | 0 | | 12 | | nall molecules, large molecules | |
| w | /here are metals formed? | at the cathode | 8 | Describe the structure and bonding of covalent substance. | of a giant a billions of atoms covalent bonds | | bonded together with strong | |
| w | /here are non-metals formed? | at the anode | 9 | What is an ion? | an atom tha | | lost or gained electrons | |
|) н | low can ionic substances be electrolysed? | by melting or dissolving them | | | | | | |
| w | /hy can solid ionic substances not be electrolysed? | they do not conduct electricity | | 🔠 🔠 Required Practical Skills | | | | |
| | n the electrolysis of aluminium oxide, why is the luminium oxide mixed with cryolite? | to lower the melting point | | | actise answering questions on the required practicals using the example below. u need to be able to apply your skills and knowledge to other practicals too. | | | |
| | n the electrolysis of aluminium oxide, why do the nodes need to be replaced? | they react with the oxygen being formed | | Electrolysis | In solution hydroxide solution (NaOH). To test for hydrogen gas, collect the gas in a test tube and insert a glowing splint – it should burn with a squeaky pop noise. To test for chlorine gas, collect the gas in a test tube and insert damp litmus paper - the litmus paper will | | Practice | |
| | n the electrolysis of solutions, when is the metal ot produced at the cathode? | when the metal is more reactive than hydrogen | | You need to be able to describe the method of electrolysis, and label the experimental set-up for electrolysis. | | | State what you would observe at each electrode during the electrolysis of copper(II) chloride. | |
| | n the electrolysis of solutions, what is produced t the anode? | a halogen or oxygen | | Electrolysis uses electricity to break ionic compounds down into | | | Give the products of the electrolysis of sodium sulfate. | |
| | /hat are the three products of the electrolysis of odium chloride solution? | hydrogen, sodium hydroxide, chlorine | | simpler compounds or elements. Metals or hydrogen are made at the negative electrode, and non-metal | | | 3 Explain why the electrodes must not touch each other during electrolysis. | |
|) | that are the reasons for electroplating a metal? | increase durability, improve desirability, reduce corrosion | | molecules are made at the positive electrode. You will need to be able to apply the principles of electrolysis to any example, as many solutions can undergo electrolysis. This includes predicting the products of electrolysis for different solutions, | | | cicologia | |
| | | | | identifying which ions move to each electrode, and writing equations for the reactions at the two electrodes. | for using univer | de can be tested sal indicator – the n purple as sodium | | |

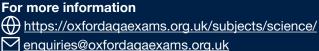
Easy-to-use, visually appealing units structure content, with clear links and connections to aid understanding



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Or contact your regional OxfordAQA Qualifications Consultant to arrange a meeting.

