

OF CHENISTRY Revision

1 Drougerd	2. How do ions	2 Decerite here	1 Decerite the	5. Why was	6. What are the	7. Explain how the	9 Complete 40	9. Explain why	10. Explain the
1. Draw and		3. Describe how	4. Describe the				8. Complete 40		•
explain the	form and give	the structure of	structure of the	Mendeleev's	rules for electron	reaction between	questions on	sodium chloride	pattern of
structure of the	examples using	the atom has	modern-day	periodic table	configuration	sodium and	Educake on topic 1	has a high melting	reactivity of alkali
atom.	diagrams.	changed over	periodic table.	accepted by other	diagrams and	chlorine forms an	<ul> <li>Key Concepts</li> </ul>	point and does	metal elements
		time.		scientists?	draw a diagram	ionic bond.		not conduct	down the group.
					for Mg (12), Cl			electricity.	
					(17) and C (6).				
11. Why do atoms	12. What is a	13. Why do simple	14. In terms of	15. Complete 40	16. Draw a	17. Describe and	18. Complete 40	19. How is the	20. How is the
have a neutral	covalent bond?	covalent	electrons, why are	questions on	covalent molecule	explain the	questions on	relative formula	percentage by
charge? Why do	What type of	molecules have	metals good	Educake on topic	for chlorine gas	properties of	Educake on topic	mass calculated?	mass calculated?
ions have a	elements form	low boiling	conductors of	1 – the periodic	(Cl <sub>2</sub> ), water (H <sub>2</sub> O)	carbon allotropes	2 – states of	Calculate the RFM	What is the
charge?	covalent bonds?	points?	electricity and	table	and methane	(diamond,	matter and	for the following:	percentage by
			thermal energy?		(CH <sub>4</sub> )	graphite,	mixtures	H <sub>2</sub> O, NaCl, H <sub>2</sub> SO <sub>4</sub> ,	mass of Na in
						graphene and		CaCO <sub>3</sub> , KMnO <sub>4</sub> .	Na <sub>2</sub> CO <sub>3</sub> ?
						fullerenes)			
21. Complete 40	22. What is the	23. Describe the	24. Describe the	25. Describe the	26.Complete 40	27. Watch the	28. How is the R <sub>f</sub>	29. What is	30. How can
questions on	equation for	arrangement of	changes in particle	different methods	questions on	video and make	value of an ink in	potable water and	potable water be
Educake on topic	calculating	particles in a solid,	arrangement,	for separating	Educake on topic 3	notes:	chromatography	how can it be	produced from
3 – chemical	concentration?	liquid and a gas.	forces and internal	mixtures.	<ul> <li>states of matter</li> </ul>	Pearson Edexcel	can be calculated?	produced from	wastewater?
changes	How many cm <sup>3</sup>		energy as a solid		and mixtures.	(9-1) Combined		ground water?	Describe the
-	are in a dm <sup>3</sup> ?	Explain why alloys	melts.			Sciences Core	Give the	-	practical to
		are useful.				Practical for	conditions for		investigate the
		are userui.				Chemistry - paper	rusting.		conditions for
						chromatography	-		rusting.
31. What factors	32. What is the	33. Explain why	34.Complete 40	35. Why can iron	36. What are the	37. What is a	38.What are the	39. What is a life-	40. Complete 40
affect the rate of a	equation for	the Noble gases	questions on	be extracted by	charges and	reversible reaction	conditions needed	cycle assessment	questions on
chemical	calculating	were the last	Educake on topic 4	heating the ore	names of the	and give the	for the Harber	and why are they	Educake on any
reaction?	concentration of	group to be	Extracting metals	with carbon?	electrodes in	symbol used in an	process?	useful?	paper 1 topic
	solutions?	discovered.	and equilibria.		electrolysis?	equation.			
41. Watch the	42. Describe a	43. Watch the	44. Describe the	45. Describe and	46. What are the	47.Watch the	48. Watch the	49.Write the	50.Complete the
video and make	method to	video and make	chemical tests for	explain under	products at each	video and make	video to	general equations	exam paper for
notes:	investigate the	notes:	the presence of	what conditions	electrode from	notes:	summarise paper	for the reactions	chemistry (paper
Making Salts -	effect of	Pearson Edexcel	hydrogen, carbon	sodium chloride	the electrolysis of	Pearson Edexcel	1 chemistry:	of acids with:	2) – select the
GCSE Science	concentration on	(9-1) Comb.	dioxide, chlorine	would conduct	solutions of	Comb. Sciences -	All of Edexcel	metals, metal	correct tier.
Required Practical	the rate of a	Sciences -	and oxygen.	electricity.	copper sulphate,	investigating pH	CHEMISTRY Paper	oxides, metal	Edexcel GCSE
	chemical reaction	electrolysis of	,0	,	copper chloride,	on powdered	1 in 35 minutes -	carbonates and	Combined Science
	between	copper sulfate	List the	What are the	sodium chloride	calcium hydroxide	GCSE Science	metal hydroxides	Past Papers -
	magnesium and	with copper	equipment	advantages and	and molten	to hydrochloric	Revision	to produce a salt.	Revision Science
	hydrochloric acid.	electrodes	needed for	disadvantages of	aluminium oxide?	acid			Or
	,		titrations.	fuel cells?				What is	For separates:
								theoretical yield?	Edexcel Physics
								,	Past Papers -
									Revision Science
	1	l .	1		1	1			

51. Describe and explain the trends in the reactivity of the alkali metals. What is the definition for actual yield? 61. Describe the	52. Describe and explain the trends in boiling points of the halogens.	53.Describe and explain the factors affecting the rate of a chemical reaction? 63. Explain why	<ul> <li>54. What is an exothermic and endothermic reaction? Give examples.</li> <li>64. Watch the core</li> </ul>	<ul> <li>55. Draw an energy profile diagram for an exothermic and endothermic reaction.</li> <li>65. How are</li> </ul>	56. What is a catalyst and how does it effect the activation energy of a reaction? 66. What is	<ul> <li>57. Describe a method for investigating the effect of concentration on the volume of gas released in a reaction.</li> <li>67. What is</li> </ul>	58. What is a hydrocarbon and what is the general formula for alkanes? 68.Complete 40	59.What is crude oil and how can it be separated? 69.Watch the core	60. Complete 40 questions on Educake on topic 6 – Groups in the periodic table 70. What is the
process of fractional distillation.	general formula for an alkene and draw the diagram of ethene and butene. What is the test for the presence of an alkene?	long chain hydrocarbons have a higher boiling point than short chain hydrocarbons.	practical video and make notes: <u>Monitoring rates</u> of reaction by recording a) change in gas volumes b) a change in colour	polymers made from monomers and what is a homologous series?	incomplete combustion and what are the dangers of this when burning fuels?	cracking and why is it useful? State the 2 forms of polymerisation.	questions on Educake on topic 7 – Rates of reaction and energy changes.	practical video and make notes. <u>Pearson Edexcel</u> (9-1) GCSE <u>Chemistry Core</u> <u>Practical - testing</u> for cations and anions	composition of the modern atmosphere?
71.Watch the core practical video and make notes. <u>Pearson Edexcel</u> (9-1) GCSE <u>Chemistry Core</u> <u>Practical -</u> <u>distillation and</u> <u>paper</u> <u>chromatography</u>	72.Complete 40 questions on Educake on topic 8 – Earth and fuels.	73. What was the composition of the early atmosphere and where did these gases originate?	74. How did oceans form on Earth?	75. Watch the core practical video and make notes. <u>Pearson Edexcel</u> (9-1) GCSE <u>Chemistry Core</u> <u>Practical - acid-</u> <u>Alkali titration</u>	76. How and why has the atmosphere change from its first formation to now?	77. What human activities are contributing to climate change? What is the meaning of the term biodegradable?	78. What are the consequences of global warming? Give the advantages and disadvantages of recycling polymers.	79. Why is the atmosphere useful?	80.Complete 40 questions on Educake on any paper 2 topic
81. How does the greenhouse effect occur and how is human activity contributing to this?	82. Explain how a catalyst affects the rate of reaction. Draw a reaction profile to demonstrate this.	83. What is oxidation and reduction? Give examples of biological polymers.	84. What is a metal ore?	85.Complete 40 questions on Educake on any paper 2 topic	86. What is a dynamic equilibrium?	87. What are the physical properties of group 1 and group 7 elements?	88. State the uses of the products of fractional distillation.	89. How is acid rain formed and what are the problems associated with acid rain?	90. What are the advantages and disadvantages of using hydrogen as a fuel in cars?
91. Describe the following types of reactions: neutralisation, displacement and precipitation.	92. How can the effects of climate change be reduced, mitigated or reversed?	93. Why is cracking necessary?	94.Complete the exam paper for physics (paper 2) – select the correct tier. <u>Edexcel GCSE</u> Combined Science	95.Complete the exam paper for physics (paper 2) – select the correct tier. <u>Edexcel GCSE</u> Combined Science	96.Complete the exam paper for physics (paper 4) – select the correct tier. <u>Edexcel GCSE</u> Combined Science	97.Complete the exam paper for physics (paper 4) – select the correct tier. <u>Edexcel GCSE</u> Combined Science	98. Watch the video to summarise all of paper 2 chemistry: <u>All of Edexcel</u> <u>CHEMISTRY Paper</u> 2 in 25 minutes -	99.Complete the exam paper for physics (paper 2) – select the correct tier. <u>Edexcel GCSE</u> Combined Science	100.Complete the exam paper for physics (paper 2) – select the correct tier. <u>Edexcel GCSE</u> Combined Science
Why does fractional distillation increase the concentration of ethanol?			Past Papers - Revision Science Or For separates: Edexcel Physics Past Papers - Revision Science	Past Papers - Revision Science Or For separates: Edexcel Physics Past Papers - Revision Science	Past Papers - Revision Science Or For separates: Edexcel Physics Past Papers - Revision Science	Past Papers - Revision Science Or For separates: Edexcel Physics Past Papers - Revision Science	<u>GCSE Science</u> <u>Revision</u>	Past Papers - Revision Science Or For separates: Edexcel Physics Past Papers - Revision Science	Past Papers - Revision Science Or For separates: Edexcel Physics Past Papers - Revision Science