

2023 - Section 1

Question	Area of course	Question type	Grade A
1	Rates of reaction	applying knowledge to new situations, interpreting, solving problems	
2	Periodic Table and atoms	knowledge and understanding - making statements	
3	Covalent bonding	applying knowledge to new situations, interpreting, solving problems	
4	Ionic compounds	applying knowledge to new situations, interpreting, solving problems	
5	Chemical formulae	applying knowledge to new situations, interpreting, solving problems	
6	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	
7	pH	applying knowledge to new situations, interpreting, solving problems	
8	Neutralisation reactions	applying knowledge to new situations, interpreting, solving problems	
9	Neutralisation reactions	applying knowledge to new situations, interpreting, solving problems	
10	Systematic carbon chemistry	applying knowledge to new situations, interpreting, solving problems	
11	Systematic carbon chemistry	applying knowledge to new situations, interpreting, solving problems	
12	Alkenes	drawing conclusions and giving explanations	1
13	Carboxylic acids	drawing conclusions and giving explanations	
14	Alcohols	applying knowledge to new situations, interpreting, solving problems	
15	Systematic carbon chemistry	drawing conclusions and giving explanations	
16	Carboxylic acids	applying knowledge to new situations, interpreting, solving problems	
17	Metallic bonding	drawing conclusions and giving explanations	
18	Reactions of metals	drawing conclusions and giving explanations	
19	Electrochemical cells	applying knowledge to new situations, interpreting, solving problems	
20	Redox	applying knowledge to new situations, interpreting, solving problems	1
21	Haber and Ostwald processes	knowledge and understanding - making statements	
22	Nuclear equations	applying knowledge to new situations, interpreting, solving problems	.
23	Analytical methods	drawing conclusions and giving explanations	
24	Analytical methods	processing information (using calculations and units)	
25	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	1

2023 – Section 2

Question	Area of course	Question type	Grade A
1(a)	Covalent bonding	knowledge and understanding - making statements	
1(b)	Periodic Table and atoms	drawing conclusions and giving explanations	
1(c)	Periodic Table and atoms	applying knowledge to new situations, interpreting, solving problems	
1(d)	Periodic Table and atoms, Ionic compounds	applying knowledge to new situations, interpreting, solving problems	
2(a)	Systematic carbon chemistry	knowledge and understanding - making statements	
2(b)(i)	Alkenes	drawing conclusions and giving explanations	
2(b)(ii)	Systematic carbon chemistry	applying knowledge to new situations, interpreting, solving problems	
2(c)(i)	Covalent bonding	applying knowledge to new situations, interpreting, solving problems	
2(c)(ii)(A)	Energy from fuels	knowledge and understanding - making statements	
2(c)(ii)(B)	Energy from fuels	knowledge and understanding - making statements	
3(a)	Periodic Table and atoms	applying knowledge to new situations, interpreting, solving problems	
3(b)(i)	Chemical formulae	applying knowledge to new situations, interpreting, solving problems	
3(b)(ii)	Reactions of metals	drawing conclusions and giving explanations	
3(c)	Reactions of metals, Analytical methods	knowledge and understanding - making statements, applying knowledge to new situations, interpreting, solving problems	
3(d)(i)	Electrochemical cells	processing information (using calculations and units)	
3(d)(ii)	Electrochemical cells	knowledge and understanding - making statements	1
3(d)(iii)	Reporting experimental work	planning or designing experiments	
4(a)	Non-specific	selecting information	
4(b)	Rates of reaction	drawing conclusions and giving explanations	
4(c)	Calculations involving the mole and balanced equations	processing information (using calculations and units)	
5	Periodic Table and atoms, Haber, and Ostwald processes	knowledge and understanding- descriptions and explanations	2
6(a)(i)	Carboxylic acids	knowledge and understanding - making statements	
6(a)(ii)	Addition polymerisation	knowledge and understanding - making statements	
6(a)(iii)	Representation of the structure of monomers and polymers	applying knowledge to new situations, interpreting, solving problems	1
6(b)(i)	Non-specific	processing information (using calculations and units)	1
6(b)(ii)	Non-specific	making predictions and generalisations	
6(c)(i)	Reporting experimental work	suggesting improvements to experimental procedures	
6(c)(ii)	Non-specific	presenting information appropriately in a variety of forms	1

Question	Area of course	Question type	Grade A
7(a)	Chemical formulae	applying knowledge to new situations, interpreting, solving problems	
7(b)	Systematic carbon chemistry	drawing conclusions and giving explanations	
7(c)	Systematic carbon chemistry	making predictions and generalisations	
7(d)	Covalent bonding	applying knowledge to new situations, interpreting, solving problems	
7(e)	Systematic carbon chemistry	knowledge and understanding- descriptions and explanations	1
7(f)	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	1
8(a)	Non-specific	selecting information	
8(b)	Chemical formulae	applying knowledge to new situations, interpreting, solving problems	1
8(c)(i)	Commercial production of fertilisers	applying knowledge to new situations, interpreting, solving problems	
8(c)(ii)	Commercial production of fertilisers	drawing conclusions and giving explanations	
8(d)	Percentage composition	applying knowledge to new situations, interpreting, solving problem	1
8(e)	General practical techniques	applying knowledge to new situations, interpreting, solving problem	1
8(f)	Non-specific	processing information (using calculations and units)	
9(a)(i)	Energy from fuels	applying knowledge to new situations, interpreting, solving problems	1
9(a)(ii)	Reporting experimental work	suggesting improvements to experimental procedure	
9(b)	Energy from fuels	processing information (using calculations and units)	
10(a)(i)	Extraction of metals	applying knowledge to new situations, interpreting, solving problems	
10(a)(ii)	Extraction of metals	knowledge and understanding - making statements	
10(b)(i)	Nuclear equations	knowledge and understanding - making statements	
10(b)(ii)	Use of radioactive isotopes	drawing conclusions and giving explanations	
10(b)(iii)(A)	Half-life	knowledge and understanding - making statements	1
10(b)(iii)(B)	Half-life	applying knowledge to new situations, interpreting, solving problems, processing information (using calculations and units)	1
11(a)	Covalent bonding	applying knowledge to new situations, interpreting, solving problems	1
11(b)(i)	Calculations involving the mole and balanced equations	applying knowledge to new situations, interpreting, solving problems	
11(b)(ii)	pH	knowledge and understanding - making statements	
11(c)	Redox	drawing conclusions and giving explanations	1
12	Rates of reaction, Neutralisation reactions used to prepare soluble salts	knowledge and understanding- descriptions and explanations	2

