

IGCSE Chemistry
Past-Paper Exercise Sheets — Question Index
47 subtopics • 300 questions • 989 marks

1.1 Solids, liquids and gases

8 questions, 20 marks • multiple choice x7, short answer

Source	Q	Type	Marks
0620/21 N25	1	multiple choice	1
0620/22 N25	2	multiple choice	1
0620/23 N25	1	multiple choice	1
0620/42 N25	1	short answer	13
0620/21 J25	1	multiple choice	1
0620/22 J25	1	multiple choice	1
0620/23 J25	2	multiple choice	1
0620/22 M25	2	multiple choice	1

1.2 Diffusion

4 questions, 4 marks • multiple choice x4

Source	Q	Type	Marks
0620/21 N25	2	multiple choice	1
0620/22 N25	3	multiple choice	1
0620/23 N25	2	multiple choice	1
0620/22 M25	3	multiple choice	1

2.1 Elements, compounds and mixtures

2 questions, 11 marks • multiple choice, short answer

Source	Q	Type	Marks
0620/22 N25	4	multiple choice	1
0620/41 J25	1	short answer	10

2.2 Atomic structure and the Periodic Table

9 questions, 30 marks • multiple choice x7, calculation, short answer

Source	Q	Type	Marks
0620/21 N25	3	multiple choice	1
0620/21 N25	5	multiple choice	1
0620/22 N25	5	multiple choice	1
0620/23 N25	3	multiple choice	1
0620/41 N25	1	calculation	13
0620/22 J25	3	multiple choice	1
0620/22 J25	4	multiple choice	1
0620/41 J25	2	short answer	10
0620/22 M25	4	multiple choice	1

2.3 Isotopes

6 questions, 14 marks • multiple choice x5, short answer

Source	Q	Type	Marks
0620/22 N25	6	multiple choice	1
0620/23 N25	6	multiple choice	1
0620/22 J25	5	multiple choice	1
0620/43 J25	2	short answer	9
0620/22 M25	5	multiple choice	1
0620/22 M25	6	multiple choice	1

2.4 Ions and ionic bonds

6 questions, 28 marks • multiple choice x4, short answer x2

Source	Q	Type	Marks
0620/21 N25	6	multiple choice	1
0620/22 N25	7	multiple choice	1
0620/23 N25	5	multiple choice	1
0620/43 N25	2	short answer	8
0620/23 J25	6	multiple choice	1
0620/42 M25	2	short answer	16

2.5 Simple molecules and covalent bonds

5 questions, 50 marks • multiple choice x2, short answer x2, calculation

Source	Q	Type	Marks
0620/23 N25	7	multiple choice	1
0620/43 N25	4	short answer	17
0620/41 J25	4	calculation	15
0620/42 J25	2	short answer	16
0620/22 M25	7	multiple choice	1

2.6 Giant covalent structures

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0620/21 N25	4	multiple choice	1
0620/22 N25	8	multiple choice	1
0620/23 N25	8	multiple choice	1
0620/21 J25	7	multiple choice	1
0620/22 J25	6	multiple choice	1

2.7 Metallic bonding

5 questions, 33 marks • multiple choice x3, short answer x2

Source	Q	Type	Marks
0620/21 N25	7	multiple choice	1
0620/22 N25	9	multiple choice	1
0620/41 J25	3	short answer	15
0620/43 J25	3	short answer	15
0620/22 M25	8	multiple choice	1

3.1 Formulae

9 questions, 9 marks • multiple choice x9

Source	Q	Type	Marks
0620/21 N25	9	multiple choice	1
0620/22 N25	11	multiple choice	1
0620/23 N25	9	multiple choice	1
0620/23 N25	10	multiple choice	1
0620/21 J25	8	multiple choice	1
0620/22 J25	8	multiple choice	1
0620/23 J25	8	multiple choice	1
0620/22 M25	9	multiple choice	1
0620/22 M25	11	multiple choice	1

3.3 The mole and the Avogadro constant

10 questions, 35 marks • multiple choice x8, short answer x2

Source	Q	Type	Marks
0620/21 N25	10	multiple choice	1
0620/21 N25	11	multiple choice	1
0620/22 N25	10	multiple choice	1
0620/23 N25	12	multiple choice	1
0620/41 N25	3	short answer	14
0620/42 N25	3	short answer	13
0620/21 J25	9	multiple choice	1
0620/21 J25	20	multiple choice	1
0620/22 J25	9	multiple choice	1
0620/22 M25	12	multiple choice	1

4.1 Electrolysis

9 questions, 23 marks • multiple choice x8, short answer

Source	Q	Type	Marks
0620/21 N25	12	multiple choice	1
0620/21 N25	13	multiple choice	1
0620/22 N25	13	multiple choice	1
0620/23 N25	13	multiple choice	1
0620/23 N25	14	multiple choice	1
0620/21 J25	10	multiple choice	1
0620/21 J25	11	multiple choice	1
0620/42 J25	3	short answer	15
0620/22 M25	14	multiple choice	1

4.2 Hydrogen-oxygen fuel cells

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0620/22 N25	12	multiple choice	1
0620/23 N25	15	multiple choice	1
0620/21 J25	12	multiple choice	1
0620/22 J25	12	multiple choice	1
0620/22 M25	15	multiple choice	1

5.1 Exothermic and endothermic reactions

9 questions, 26 marks • multiple choice x8, short answer

Source	Q	Type	Marks
0620/21 N25	14	multiple choice	1
0620/21 N25	15	multiple choice	1
0620/22 N25	14	multiple choice	1
0620/22 N25	15	multiple choice	1
0620/63 N25	2	short answer	18
0620/21 J25	13	multiple choice	1
0620/22 J25	14	multiple choice	1
0620/23 J25	13	multiple choice	1
0620/22 M25	17	multiple choice	1

6.1 Physical and chemical changes

3 questions, 3 marks • multiple choice x3

Source	Q	Type	Marks
0620/23 N25	16	multiple choice	1
0620/23 J25	27	multiple choice	1
0620/22 M25	18	multiple choice	1

6.2 Rate of reaction

8 questions, 41 marks • multiple choice x6, calculation x2

Source	Q	Type	Marks
0620/21 N25	16	multiple choice	1
0620/22 N25	16	multiple choice	1
0620/21 J25	15	multiple choice	1
0620/22 J25	15	multiple choice	1
0620/23 J25	15	multiple choice	1
0620/61 J25	2	calculation	17
0620/63 J25	2	calculation	18
0620/22 M25	19	multiple choice	1

6.3 Reversible reactions and equilibrium

10 questions, 42 marks • multiple choice x8, calculation, short answer

Source	Q	Type	Marks
0620/21 N25	17	multiple choice	1
0620/21 N25	19	multiple choice	1
0620/22 N25	18	multiple choice	1
0620/23 N25	19	multiple choice	1
0620/23 N25	20	multiple choice	1
0620/41 N25	4	calculation	16
0620/21 J25	16	multiple choice	1
0620/23 J25	16	multiple choice	1
0620/41 J25	5	short answer	18
0620/22 M25	20	multiple choice	1

6.4 Redox

8 questions, 26 marks • multiple choice x7, short answer

Source	Q	Type	Marks
0620/21 N25	18	multiple choice	1
0620/22 N25	19	multiple choice	1
0620/23 N25	18	multiple choice	1
0620/23 N25	22	multiple choice	1
0620/42 N25	2	short answer	19
0620/22 J25	17	multiple choice	1
0620/23 J25	18	multiple choice	1
0620/22 M25	21	multiple choice	1

7.1 The characteristic properties of acids and bases

9 questions, 23 marks • multiple choice x8, short answer

Source	Q	Type	Marks
0620/21 N25	20	multiple choice	1
0620/22 N25	22	multiple choice	1
0620/23 N25	21	multiple choice	1
0620/23 N25	24	multiple choice	1
0620/23 N25	34	multiple choice	1
0620/42 N25	4	short answer	15
0620/21 J25	18	multiple choice	1
0620/22 J25	19	multiple choice	1
0620/22 M25	22	multiple choice	1

7.2 Oxides

6 questions, 6 marks • multiple choice x6

Source	Q	Type	Marks
0620/21 N25	22	multiple choice	1
0620/22 N25	21	multiple choice	1
0620/23 N25	25	multiple choice	1
0620/22 J25	20	multiple choice	1
0620/23 J25	20	multiple choice	1
0620/22 M25	23	multiple choice	1

7.3 Preparation of salts

9 questions, 53 marks • multiple choice $\times 5$, short answer $\times 4$

Source	Q	Type	Marks
0620/21 N25	21	multiple choice	1
0620/22 N25	20	multiple choice	1
0620/23 N25	11	multiple choice	1
0620/41 N25	3	short answer	14
0620/42 N25	3	short answer	13
0620/43 N25	5	short answer	12
0620/21 J25	19	multiple choice	1
0620/61 J25	1	short answer	9
0620/22 M25	24	multiple choice	1

8.1 Arrangement of elements

5 questions, 5 marks • multiple choice $\times 5$

Source	Q	Type	Marks
0620/21 N25	23	multiple choice	1
0620/23 N25	23	multiple choice	1
0620/21 J25	21	multiple choice	1
0620/23 J25	22	multiple choice	1
0620/22 M25	25	multiple choice	1

8.2 Group I properties

6 questions, 19 marks • multiple choice $\times 5$, short answer

Source	Q	Type	Marks
0620/21 N25	24	multiple choice	1
0620/22 N25	23	multiple choice	1
0620/23 N25	27	multiple choice	1
0620/22 J25	22	multiple choice	1
0620/23 J25	21	multiple choice	1
0620/42 J25	5	short answer	14

8.3 Group VII properties

7 questions, 19 marks • multiple choice x6, short answer

Source	Q	Type	Marks
0620/21 N25	25	multiple choice	1
0620/22 N25	24	multiple choice	1
0620/21 J25	22	multiple choice	1
0620/22 J25	23	multiple choice	1
0620/22 J25	24	multiple choice	1
0620/22 M25	26	multiple choice	1
0620/42 M25	3	short answer	13

8.4 Transition elements

4 questions, 20 marks • multiple choice x3, short answer

Source	Q	Type	Marks
0620/23 N25	26	multiple choice	1
0620/21 J25	23	multiple choice	1
0620/23 J25	24	multiple choice	1
0620/42 M25	5	short answer	17

8.5 Noble gases

4 questions, 4 marks • multiple choice x4

Source	Q	Type	Marks
0620/22 N25	25	multiple choice	1
0620/21 J25	24	multiple choice	1
0620/22 J25	21	multiple choice	1
0620/23 J25	23	multiple choice	1

9.1 Properties of metals

2 questions, 29 marks • short answer x2

Source	Q	Type	Marks
0620/41 N25	2	short answer	17
0620/43 N25	5	short answer	12

9.2 Uses of metals

1 question, 1 marks • multiple choice

Source	Q	Type	Marks
0620/21 J25	25	multiple choice	1

9.3 Alloys and their properties

4 questions, 12 marks • multiple choice x3, short answer

Source	Q	Type	Marks
0620/22 J25	25	multiple choice	1
0620/23 J25	26	multiple choice	1
0620/42 J25	4	short answer	9
0620/22 M25	28	multiple choice	1

9.4 Reactivity series

9 questions, 9 marks • multiple choice x9

Source	Q	Type	Marks
0620/21 N25	26	multiple choice	1
0620/21 N25	27	multiple choice	1
0620/22 N25	26	multiple choice	1
0620/23 N25	28	multiple choice	1
0620/21 J25	26	multiple choice	1
0620/21 J25	27	multiple choice	1
0620/22 J25	26	multiple choice	1
0620/23 J25	25	multiple choice	1
0620/22 M25	29	multiple choice	1

9.5 Corrosion of metals

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0620/21 N25	28	multiple choice	1
0620/22 N25	27	multiple choice	1
0620/21 J25	29	multiple choice	1
0620/22 J25	27	multiple choice	1
0620/22 M25	27	multiple choice	1

9.6 Extraction of metals

9 questions, 27 marks • multiple choice x8, short answer

Source	Q	Type	Marks
0620/21 N25	29	multiple choice	1
0620/22 N25	28	multiple choice	1
0620/22 N25	29	multiple choice	1
0620/23 N25	32	multiple choice	1
0620/23 N25	33	multiple choice	1
0620/42 N25	2	short answer	19
0620/21 J25	28	multiple choice	1
0620/22 J25	28	multiple choice	1
0620/22 M25	30	multiple choice	1

10.1 Water

6 questions, 6 marks • multiple choice x6

Source	Q	Type	Marks
0620/22 N25	30	multiple choice	1
0620/22 J25	29	multiple choice	1
0620/23 J25	28	multiple choice	1
0620/23 J25	29	multiple choice	1
0620/22 M25	31	multiple choice	1
0620/22 M25	32	multiple choice	1

10.2 Fertilisers

2 questions, 2 marks • multiple choice x2

Source	Q	Type	Marks
0620/21 J25	30	multiple choice	1
0620/22 J25	18	multiple choice	1

10.3 Air quality and climate

10 questions, 10 marks • multiple choice x10

Source	Q	Type	Marks
0620/21 N25	30	multiple choice	1
0620/21 N25	31	multiple choice	1
0620/22 N25	31	multiple choice	1
0620/22 N25	33	multiple choice	1
0620/23 N25	29	multiple choice	1
0620/23 N25	30	multiple choice	1
0620/21 J25	31	multiple choice	1
0620/21 J25	32	multiple choice	1
0620/22 J25	30	multiple choice	1
0620/22 M25	34	multiple choice	1

11.1 Formulae, functional groups and terminology

8 questions, 55 marks • multiple choice x4, short answer x3, calculation

Source	Q	Type	Marks
0620/22 N25	34	multiple choice	1
0620/23 N25	37	multiple choice	1
0620/42 N25	5	calculation	12
0620/42 N25	6	short answer	8
0620/43 N25	6	short answer	17
0620/21 J25	33	multiple choice	1
0620/23 J25	34	multiple choice	1
0620/42 M25	6	short answer	14

11.3 Fuels

3 questions, 3 marks • multiple choice x3

Source	Q	Type	Marks
0620/21 N25	32	multiple choice	1
0620/22 N25	36	multiple choice	1
0620/22 J25	34	multiple choice	1

11.4 Alkanes

8 questions, 19 marks • multiple choice x7, calculation

Source	Q	Type	Marks
0620/21 N25	34	multiple choice	1
0620/23 N25	31	multiple choice	1
0620/42 N25	5	calculation	12
0620/21 J25	34	multiple choice	1
0620/22 J25	35	multiple choice	1
0620/23 J25	35	multiple choice	1
0620/23 J25	36	multiple choice	1
0620/22 M25	36	multiple choice	1

11.5 Alkenes

7 questions, 37 marks • multiple choice x5, short answer x2

Source	Q	Type	Marks
0620/21 N25	36	multiple choice	1
0620/22 N25	32	multiple choice	1
0620/23 N25	17	multiple choice	1
0620/23 N25	36	multiple choice	1
0620/23 J25	33	multiple choice	1
0620/42 J25	6	short answer	18
0620/42 M25	6	short answer	14

11.6 Alcohols

8 questions, 27 marks • multiple choice x7, short answer

Source	Q	Type	Marks
0620/21 N25	33	multiple choice	1
0620/22 N25	37	multiple choice	1
0620/41 N25	5	short answer	20
0620/21 J25	17	multiple choice	1
0620/21 J25	35	multiple choice	1
0620/22 J25	32	multiple choice	1
0620/22 J25	36	multiple choice	1
0620/22 M25	37	multiple choice	1

11.7 Carboxylic acids

9 questions, 32 marks • multiple choice x7, short answer x2

Source	Q	Type	Marks
0620/21 N25	37	multiple choice	1
0620/22 N25	35	multiple choice	1
0620/22 N25	38	multiple choice	1
0620/23 N25	38	multiple choice	1
0620/42 N25	6	short answer	8
0620/43 N25	6	short answer	17
0620/21 J25	14	multiple choice	1
0620/21 J25	36	multiple choice	1
0620/22 J25	33	multiple choice	1

11.8 Polymers

7 questions, 7 marks • multiple choice x7

Source	Q	Type	Marks
0620/21 N25	35	multiple choice	1
0620/21 N25	38	multiple choice	1
0620/23 N25	35	multiple choice	1
0620/21 J25	37	multiple choice	1
0620/22 J25	37	multiple choice	1
0620/23 J25	37	multiple choice	1
0620/22 M25	38	multiple choice	1

12.1 Experimental design

5 questions, 35 marks • calculation x3, short answer x2

Source	Q	Type	Marks
0620/61 N25	1	short answer	5
0620/62 N25	1	calculation	9
0620/63 N25	1	short answer	7
0620/62 J25	1	calculation	7
0620/63 J25	1	calculation	7

12.2 Acid-base titrations

5 questions, 39 marks • multiple choice x3, calculation x2

Source	Q	Type	Marks
0620/22 N25	39	multiple choice	1
0620/61 N25	2	calculation	18
0620/62 N25	2	calculation	18
0620/21 J25	38	multiple choice	1
0620/22 J25	38	multiple choice	1

12.3 Chromatography

5 questions, 5 marks • multiple choice x5

Source	Q	Type	Marks
0620/22 N25	40	multiple choice	1
0620/23 N25	40	multiple choice	1
0620/21 J25	40	multiple choice	1
0620/23 J25	40	multiple choice	1
0620/22 M25	40	multiple choice	1

12.4 Separation and purification

7 questions, 19 marks • multiple choice $\times 6$, short answer

Source	Q	Type	Marks
0620/21 N25	40	multiple choice	1
0620/42 N25	3	short answer	13
0620/21 J25	39	multiple choice	1
0620/22 J25	39	multiple choice	1
0620/22 J25	40	multiple choice	1
0620/23 J25	38	multiple choice	1
0620/23 J25	39	multiple choice	1

12.5 Identification of ions and gases

9 questions, 56 marks • multiple choice $\times 3$, short answer $\times 3$, calculation $\times 3$

Source	Q	Type	Marks
0620/21 N25	39	multiple choice	1
0620/23 N25	39	multiple choice	1
0620/61 N25	3	short answer	11
0620/62 N25	3	short answer	7
0620/63 N25	3	calculation	9
0620/61 J25	3	calculation	8
0620/62 J25	3	calculation	9
0620/63 J25	3	short answer	9
0620/22 M25	39	multiple choice	1