

In Summer 2022 the GCSE Chemistry practical Unit 3 was an optional omission. Candidates had the option to sit all units and graded through the standard grading route or to only sit the mandatory units 1 and 2 and omit the practical unit 3 and be graded through the alternative grading route.

Unit 1 – Structures, Trends, Chemical Reactions, Quantitative Chemistry and Analysis

For written Unit 1, there are 60 raw marks available at Foundation Tier and 80 at Higher Tier. The **maximum** uniform mark for Unit 1 is 140. The **minimum** uniform mark required for each grade is as follows:

A	B	C*	C	D	E	F	G
112	103	94	84	70	56	42	28

Candidates entering for Foundation Tier can achieve a maximum uniform mark score of 102 in this unit.

Unit 2 – Further Chemical Reactions, Rates and Equilibrium, Calculations and Organic Chemistry

For written Unit 2, there are 80 raw marks available at Foundation Tier and 100 at Higher tier.

The **maximum** uniform mark for Unit 2 is 160. The **minimum** uniform mark required for each grade is as follows:

A	B	C*	C	D	E	F	G
128	117	108	96	80	64	48	32

Candidates entering for Foundation Tier can achieve a maximum uniform mark score of 116 in this unit.

Unit 3 – Practical Skills

For practical and written Unit 3, there are 30 raw marks available for Practical Booklet A and 70 raw marks available for Practical Booklet B for both Foundation and Higher Tiers.

The **maximum** uniform mark for Unit 3 is 100. The **minimum** uniform mark required for each grade is as follows:

A	B	C*	C	D	E	F	G
80	73	67	60	50	40	30	20

Candidates entering for Foundation Tier can achieve a maximum uniform mark score of 72 in this unit.

Qualification results

The **maximum** uniform mark for the final award is 400. The **minimum** uniform mark required for each final grade is as follows:

Standard Grading (All three Units)

A*	A	B	C*	C	D	E	F	G
375	320	292	268	240	200	160	120	80

Alternative Grading (Unit 3 Omitted)

A*	A	B	C*	C	D	E	F	G
281	240	219	201	180	150	120	90	60

Grading notes

Alternative Grading - candidates may choose to avail of the omission and complete only the mandatory units.

Standard Grading - candidates may complete all units.

Candidates that complete all units will be awarded the best grade through either Grading Route.

Subject Level Uniform Mark boundaries (grades A to G) carry the same % weighting across both

Grading Routes: i.e. A 80%, B 73%, C* 67%, C 60%, D 50%, E 40%, F 30% and G 20%

UMS boundaries at Unit Level are stable for the lifetime of the specification and will not change.

Raw Mark boundaries at Unit Level are set independently in each examination series.

Using this series' Raw Mark boundaries to estimate future boundaries must be used with caution as they change.

A* is only awarded at subject level and is a derived grade set independently in each examination series.

The A* UMS % weighting will be applied equally to both Grading Routes.

Using this series', A* boundary to estimate future A* boundaries must be used with caution as it changes.

Unit 1 – Structures, Trends, Chemical Reactions, Quantitative Chemistry and Analysis

Foundation Tier

GCM11		
Grade	Raw Mark	UMS
MAX	60	102
C*	11	94
C	9	84
D	6	70
E	4	56
F	2	42
G	1	28

Higher Tier

GCM12		
Grade	Raw Mark	UMS
MAX	80	140
A	41	112
B	28	103
C*	16	94
C	4	84
D	2	70
E	1	63

Unit 2 – Further Chemical Reactions, Rates and Equilibrium, Calculations and Organic Chemistry

Foundation Tier

GCM21		
Grade	Raw Mark	UMS
MAX	80	116
C*	11	108
C	9	96
D	6	80
E	4	64
F	2	48
G	1	32

Higher Tier

GCM12		
Grade	Raw Mark	UMS
MAX	100	160
A	43	128
B	30	117
C*	17	108
C	5	96
D	2	80
E	1	72

Unit 3 – Practical Skills

Foundation Tier

GCM31 & GCM32		
Grade	Raw Mark	UMS
MAX	100	72
C*	32	67
C	30	60
D	28	50
E	26	40
F	24	30
G	22	20

Higher Tier

GCM33 & GCM34		
Grade	Raw Mark	UMS
MAX	100	100
A	40	80
B	30	73
C*	21	67
C	12	60
D	3	50
E	1	45

Overall Subject Level Outcomes and Grading Routes

The cumulative percentage of candidates obtaining each grade through standard and alternative grading routes and total entry shown below.

	Standard Grading	Cum %	Alternative Grading	Cum %	All Grades Cum %
Max UM	400		300		
A*	375	29.3%	281	26.2%	26.5%
A	320	64.9%	240	62.3%	62.8%
B	292	83.3%	219	79.3%	79.7%
C*	268	94.2%	201	93.8%	93.8%
C	240	99.0%	180	99.0%	99.0%
D	200	99.7%	150	99.7%	99.7%
E	160	99.7%	120	99.8%	99.7%
F	120	100.0%	90	99.9%	99.9%
G	80	100.0%	60	100%	100%
		Total 311		Total 2589	Total 2900