

Examination results Summer 2022 Science AS, A-level and GCSE

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GCSE results statistics: Combined sciences

GCSE statistics **2022**, with data from **2021 (TAGs)**, **2020(CAGs)** and **2019** for comparison. Cumulative percentages at each grade. Figures in brackets are the difference between **2022 and 2021** and **2021 and 2019**.

*For Combined Science, these are double grades (1-1, 2-2 etc). Intermediate grades (1-2, 2-3 etc) not included

	Total entries	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9
Combined Trilogy*	337 346	98.2 (-0.9)	94.0 (-0.4)	83.2 (-0.5)	60.8 (-4.6)	39.4 (-3.3)	20.7 (-3.4)	10.4 (-2.3)	4.4 (-1.0)	1.3 (-0.3)
	331 805	99.1 (+1.0)	94.4 (+2.3)	83.7 (+6.0)	65.4 (+9.4)	42.7 (+7.8)	24.1 (+7.3)	12.7 (+5.1)	5.4 (+2.3)	1.6 (+0.7)
	321 606	99.6	95.5	84.7	64.9	41.8	22.3	10.8	4.5	1.4
	303 207	98.1	92.1	77.7	56.0	34.9	16.8	7.6	3.1	0.9
Combined Synergy*	6324	95.9 (-1.9)	86.5 (-3.2)	69.8 (-5.4)	46.0 (-6.1)	28.4 (-1.7)	13.0 (-1.6)	6.0 (-1.9)	1.9 (-1.3)	0.4 (-0.2)
	6175	97.8 (+1.2)	89.7 (+3.0)	75.2 (+7.8)	52.1 (+10.7)	30.1 (+8.6)	14.6 (+6.4)	7.9 (+4.2)	3.2 (+2.0)	0.6 (+0.3)
	6958	99.2	90.9	74.0	50.0	27.1	11.7	5.4	1.9	0.4
	6138	96.6	86.7	67.4	41.4	21.5	8.2	3.7	1.2	0.3

There has been an increase in the number of entries as the number of unique centres entering AQA science has continued to grow as well as the student population increasing.

There has been a change in the **entry split between Foundation and Higher since 2019**. There has been an increase in the number of students entered for Higher tier.

	2019	2020 (CAGs)	2021 (TAGs)	2022 Exams
Foundation	63%	61%	58%	59%
Higher	37%	38%	42%	41%

GCSE results statistics: separate sciences

GCSE statistics **2022**, with data from **2021 (TAGs)**, **2020 (CAGs)** and **2019** for comparison. Cumulative percentages at each grade.
 Figures in brackets are the difference between **2022 and 2021** and **2021 and 2019**

	Total entries	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9
Biology	141006	99.5(-0.2)	98.7(-0.3)	96.6(-0.8)	91.9(-2.0)	84.5(-2.3)	69.3(-4.9)	49.7(-6.6)	31.8(-5.0)	16.0(-2.4)
	138 825	99.7(+0.3)	99.0(+0.7)	97.4(+1.4)	93.9(+3.8)	86.8(+6.4)	74.2(+10.5)	56.3(+13.5)	36.8(+9.9)	18.4(+5.9)
	132 640	99.9	99.4	98.0	94.7	87.2	73.2	53.0	33.6	16.8
	130 938	99.4	98.3	96.0	90.1	80.4	63.7	42.8	26.9	12.5
Chemistry	134774	99.7(-0.1)	99.0(-0.2)	97.2(-0.5)	93.0(-1.1)	83.6(-2.3)	67.6(-4.9)	49.6(-5.1)	32.5(-2.9)	15.9(-1.8)
	133 520	99.8(+0.3)	99.2(+0.4)	97.7(+0.8)	94.1(+3.8)	85.9(+6.9)	72.5(+10.3)	54.7(+10.2)	35.4(+7.4)	17.7(+4.5)
	127 076	100.0	99.7	98.7	95.8	87.6	72.6	53.3	33.7	16.8
	126 276	99.5	98.8	96.9	90.3	79.0	62.2	44.5	28.0	13.2
Physics	134655	99.6(-0.2)	99.1(-0.3)	97.8(-0.5)	93.9(-1.4)	85.6(-2.0)	70.4(-3.6)	50.2(-5.3)	32.9(-2.6)	15.5(-1.7)
	132 965	99.8(+0.3)	99.4(+0.5)	98.3(+0.9)	95.3(+4.2)	87.6(+8.3)	74.0(+11.5)	55.5(+11.3)	35.5(+7.8)	17.2(+4.6)
	126 609	100.0	99.8	99.0	96.1	88.1	72.9	53.1	33.2	16.4
	125 656	99.5	98.9	97.4	91.1	79.3	62.5	44.2	27.7	12.6

There has been an increase in the number of entries as the number of unique centres entering AQA science has continued to grow as well as the student population increasing.

There has been less change in the **entry split between Foundation and Higher since 2019 for the separate sciences**. The slight increase in the number of students entered for Higher tier has nearly adjusted back to the 2019 pattern.

Biology	2019	2020 (CAGs)	2021 (TAGs)	2022 Exams
Foundation	15%	14%	12%	14%
Higher	85%	84%	88%	86%

Chemistry	2019	2020 (CAGs)	2021 (TAGs)	2022 Exams
Foundation	15%	13%	11%	14%
Higher	85%	87%	89%	86%

Physics	2019	2020 (CAGs)	2021 (TAGs)	2022 Exams
Foundation	15%	12%	10%	12%
Higher	85%	87%	90%	87%

GCSE grade boundary comparisons 2018–2022

Combined Science: Trilogy (8464) 420 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
Higher					
9-9	289	269	262	258	276
7-7	213	199	190	181	202
5-5	1361	123	117	109	126
4-4	98	87	81	91	89
Foundation					
5-5	253	243	231	230	242
4-4	218	200	185	208	203
1-1	71	41	36	39	40

Combined Science: Synergy (8465) 400 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
Higher					
9-9	248	234	255	257	263
7-7	177	175	168	165	186
5-5	109	111	106	103	118
4-4	77	81	76	73	86
Foundation					
5-5	229	238	227	224	240
4-4	194	198	185	185	207
1-1	48	44	36	40	51

Biology (8461) 200 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
Higher					
9	132	134	131	130	132
7	102	107	101	98	104
5	69	72	63	64	68
4	53	55	45	48	51
Foundation					
5	121	130	122	119	126
4	107	114	101	102	109
1	26	21	16	18	20

Chemistry (8462) 200 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
Higher					
9	150	144	139	138	144
7	112	107	98	96	103
5	72	69	58	58	58
4	52	50	38	39	36
Foundation					
5	127	133	123	121	126
4	109	115	98	100	104
1	24	21	15	18	20

Physics (8463) 200 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
Higher					
9	135	143	140	142	150
7	103	108	101	102	119
5	68	70	60	62	77
4	51	51	40	43	56
Foundation					
5	123	129	123	122	135
4	107	111	98	100	115
1	27	20	16	16	21

Results statistics: AS, A-level and Applied General

AS and A-level statistics 2022 with data from 2021 (TAGs), 2020 (CAGs) and 2019 for comparison. Cumulative percentages at each grade. Figures in brackets are the difference between 2022 and 2021 and 2021 and 2019

		Total entries	Grade E	Grade D	Grade C	Grade B	Grade A	Grade A*
AS Biology	2022	3206	87.1 (-5.5)	71.0 (-9.1)	54.6 (-9.3)	36.9 (-8.4)	21.9 (-4.0)	
	2021	2463	92.6 (+10.6)	80.1 (+14.2)	63.9 (+15.6)	45.3 (+13.8)	25.9 (+9.1)	
	2020	3093	95.7	84.8	68.0	45.8	24.8	
	2019	4772	81.2	65.9	48.3	31.5	16.8	
A-level Biology	2022	36 129	97.7 (-1.8)	89.3 (-5.9)	74.2 (-11.3)	54.6 (-13.1)	33.7 (-10.2)	12.7 (-5.1)
	2021	34 822	99.5 (+3.9)	95.2 (+10.5)	85.5 (+19.8)	67.7 (+24.1)	43.9 (+20.5)	17.8 (+11.2)
	2020	31 539	99.7	95.3	83.5	61.7	36.8	13.0
	2019	33 381	95.6	84.7	65.7	43.6	23.4	6.6

		Total entries	Grade E	Grade D	Grade C	Grade B	Grade A	Grade A*
AS Chemistry	2022	2004	88.3 (-7.3)	75.4 (-8.4)	58.5 (-9.5)	42.6 (-7.3)	24.7 (-7.3)	
	2021	1434	95.6 (+13.5)	83.8 (+15.5)	68.0 (+15.6)	49.9 (+14.0)	32.0 (+12.3)	
	2020	1970	97.4	88.0	74.4	55.1	31.0	
	2019	3399	82.1	68.3	52.4	35.9	19.7	
A-level Chemistry	2022	24 873	97.7 (-1.7)	90.4 (-4.7)	77.7 (-8.9)	59.8 (-11.1)	37.6 (-11.3)	13.1 (-6.9)
	2021	24 833	99.4 (+3.7)	95.1 (+8.7)	86.6 (+15.4)	70.9 (+19.9)	48.9 (+20.7)	20.0 (+13.0)
	2020	23 223	99.6	95.6	85.6	66.3	41.5	14.1
	2019	24 705	95.7	86.4	71.2	51.0	28.2	7.0

		Total entries	Grade E	Grade D	Grade C	Grade B	Grade A	Grade A*
AS Physics	2022	1706	87.0 (-8.6)	72.6 (-13.5)	56.4 (-15.1)	40.4 (-13.8)	27.0 (-7.5)	
	2021	1553	95.6 (+13.8)	86.1 (+17.9)	71.5 (+17.7)	54.2 (+17.1)	34.5 (+11.7)	
	2020	2384	96.5	85.1	70.8	50.9	30.8	
	2019	3239	81.8	68.2	53.8	37.1	22.8	
A-level Physics	2022	20 805	97.5 (-2.0)	89.9 (-5.1)	76.3 (-9.6)	58.3 (-10.8)	39.0 (-7.6)	16.4 (-5.2)
	2021	21 244	99.5 (+4.0)	95.0 (+8.7)	85.9 (+15.4)	69.1 (+18.4)	46.6 (+18.7)	21.6 (+12.9)
	2020	19 946	99.6	94.9	84.0	65.0	41.4	17.2
	2019	20 385	95.5	86.3	70.5	50.7	27.9	8.7

		Total entries	Grade E	Grade D	Grade C	Grade B	Grade A	Grade A*
AS Environmental Science	2021	226	92.9 (+12.2)	80.1 (+16.5)	59.7 (+15.7)	36.3 (+10.1)	14.2 (+4.6)	
	2020	242	95.5	85.1	65.7	38.8	15.3	
	2019	332	80.7	63.6	44.0	26.2	9.6	
A-level Environmental Science	2022	1239	96.6 (-2.9)	87.2 (-6.4)	67.8 (-8.9)	43.6 (-7.6)	17.3 (-5.2)	5.7 (-1.6)
	2021	1164	99.5 (+5.6)	93.6 (+14.8)	76.7 (+22.7)	51.2 (+24.4)	22.5 (+13.7)	7.3 (+4.9)
	2020	881	99.1	92.3	72.5	43.9	18.4	5.1
	2019	876	93.9	78.8	54.0	26.8	8.8	2.4

❖ No data for AS Environmental science as last certification was 2021

		Total entries	Pass	Merit	Distinction	Distinction*
Applied General Science Certificate	2022	481	55.9 (–38.3)	21.8 (–27.7)	1.5 (–19.2)	0.2 (–0.5)
	2021	570	94.2 (+28.3)	49.5 (+34.1)	20.7 (+20.4)	0.7 (+0.7)
	2020	991	95.8	49.2	7.4	0.6
	2019	1513	65.9	15.4	0.3	0.0
Applied General Science Extended Certificate	2022	673	84.1 (–13.7)	44.0 (–21.5)	7.1 (–14.6)	0.3 (–0.5)
	2021	1018	97.8 (+16.4)	65.5 (+33.2)	21.7 (+19.9)	4.8 (4.7)
	2020	1142	98.2	54.6	7.4	0.4
	2019	1320	81.4	32.3	1.8	0.1

A-level grade boundary comparisons 2018–2022

Biology (7402) 260 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
A*	166	178	170	168	173
A	138	149	138	136	142
B	116	125	114	113	115
C	94	101	90	91	89
D	72	77	67	69	63
E	50	53	44	47	37

Chemistry (7404) 300 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
A*	241	246	235	236	237
A	198	206	192	192	196
B	163	170	157	158	158
C	128	135	123	124	121
D	94	100	89	90	84
E	60	65	55	56	47

Physics *Astro Physics (7408A) marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
A*		198	188	188	167
A		171	158	158	137
B		143	129	129	113
C		116	100	101	89
D		89	72	73	66
E		62	44	45	43

* Grade boundaries shown for Astro Physics option only as an example

Environmental Science (7447) 240 marks					
Grade	2018	2019	2020	2021	2022
			Exceptional Nov series		
A*		171	162	158	164
A		156	140	136	146
B		132	117	114	120
C		108	94	92	95
D		85	72	71	70
E		62	50	50	45

Notes

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