

## Guidance for using the GCSE to A level Transition Paper

### Question papers

This paper is made up of questions from a variety of sources: the current 9-1 GCSE / International GCSE, and the previous A\*-G GCSE / International GCSE. Questions have been taken from the Higher Tier GCSE papers, and selected to highlight topics that are key to progression from GCSE to A level.

The papers are written to mimic the papers for the current GCSE separate sciences: 100 marks, and 1 hour 45 minutes.

As the questions have been taken from a variety of sources, I've checked them against the 2016 GCSE specifications, but it is possible that some question parts may not match the current specification.

I've also not attempted to match the mathematical and practical work requirements of the current specification – although there are some maths and practical questions in there! Lastly, note that the command words used in previous exams may not match those in the current specification.

### Transition grid

This table shows the question paper from which each question in the transition paper was sourced. To make it easier to refer to questions when using this paper with your students, the questions have been renumbered sequentially in the transition paper. In some cases, you may find questions that retain the original lettering of the question parts: some question parts may have been removed to prevent duplications and to make sure the total for the paper came out correctly!

#### *Mapping grid*

Question number	Paper /date	Topic	Number of marks
1	4PH0 1P, June 2015, Q2	motion and forces	11
2	4PH0 1P, June 2014, Q4	radioactivity	9
3	5PH2H, June 2016, Q3	energy - forces doing work + momentum	10
4	1PH0 1H, June 2018, Q2	waves and light	8
5	4PH0 2P, June 2016, Q4	magnetism and the motor effect	8
6	1PH0 2H, June 2018, Q7	conservation of energy	8
7	5PH3H, June 2017, Q4	particle model	10
8	1PH0 2H, June 2018, Q10	electricity	11
9	4PH0 2P, June 2016, Q4	moments	5
10	4PH0 1P, June 2019, Q9	nuclear fission	7
11	5PH1H, June 2014, Q2	electromagnetic induction	7
12	5PH1H, Jan 2018, Q3	astronomy	6

## Results Plus data

This table gives data from Results Plus that shows the average mark for each question part, along with the average marks scored on each question part by students whose final grade was A\* / Grade 8, A / Grade 7 or C / Grade 4. Although this isn't quite the same as a grade boundary, but it's a pretty good indicator.

Note that, for questions taken from the current GCSE, the RP+ data has been taken from the separate science papers, not the equivalent Combined Science papers. It's also worth noting that the final question on the Physics papers comes from the final resit for the previous GCSE specification. These had a very small entry, so the RP+ data is a little odd.

						Gd 8 / A*	Gd 7 / A	Gd 4 / C
Q1	a i	4PH0 1P, June 2015, Q2	1	0.93		0.97	0.94	0.90
	a ii		1	0.76		0.87	0.77	0.59
	b i		1	0.95		0.99	0.98	0.91
	b ii		3	2.78		2.96	2.87	2.57
	c i		1	0.98		1.00	1.00	0.98
	c ii		2	1.79		1.92	1.82	1.66
	d		2	1.21		1.71	1.19	0.44
Q2	a	4PH0 1P, June 2014, Q4	2	1.74		1.92	1.80	1.49
	b i		1	0.69		0.89	0.72	0.37
	b ii		1	0.79		0.95	0.85	0.56
	b iii		2	1.42		1.70	1.52	1.03
	c		3	2.06		2.62	2.19	1.21
Q3	a	5PH2H, June 2016, Q3	2	0.48		1.23	0.75	0.29
	b		1	0.28		0.88	0.55	0.09
	c		2	0.90		1.84	1.48	0.51
	d		3	2.74		2.98	2.94	2.71
	e		2	1.05		1.82	1.45	0.81
Q4	a ii	1PH0 1H, June 2018, Q2	2	1.84		1.91	1.89	1.66
	a iii		3	1.80		2.13	1.94	1.12
	b		3	2.64		2.86	2.76	2.16
Q5	a i	4PH0 2P, June 2016, Q4	1	0.86		0.96	0.88	0.75
	a ii		2	1.36		1.69	1.30	0.87
	b		2	1.85		1.95	1.90	1.70
	c		3	2.28		2.70	2.35	1.62
Q6	a iii	1PH0 2H, June 2018, Q7	2	1.66		1.91	1.84	1.02
	b i		4	2.46		3.17	2.71	1.43
	b ii		2	1.06		1.21	1.14	0.73
Q7	a	5PH3H, June 2017, Q4	1	0.91		0.97	0.94	0.86
	b i		3	1.10		1.76	1.29	0.71
	b ii		2	1.34		1.79	1.54	1.01
	c i		1	0.48		0.75	0.57	0.29
	c ii		3	1.66		2.68	2.22	0.77
Q8	a i	1PH0 2H, June 2018, Q10	1	0.80		0.85	0.79	0.73
	a ii		4	1.58		2.76	1.80	0.18

	b		6	2.52		3.97	2.82	0.53
Q9	b ii	4PH0 2P, June 2016, Q5	1	0.95		1.00	0.98	0.91
	b iii		4	2.54		3.30	2.34	1.36
Q10	b i	4PH0 1P, June 2019, Q9	2	1.75		1.90	1.80	1.49
	b ii		2	0.93		1.01	0.79	0.43
	b iii		1	0.67		0.80	0.63	0.31
	b iv		2	0.72		0.78	0.56	0.30
Q11	a	5PH1H, June 2014, Q2	2	1.28		1.90	1.73	0.95
	b		2	1.22		1.60	1.44	1.07
	c		3	1.70		2.77	2.30	1.24
Q12	a	5PH1H, Jan 2018, Q3	1	0.74		1.00	0.50	0.73
	b		2	0.50		2.00	0.00	0.67
	c i		1	0.55		0.00	1.00	0.67
	c ii		2	1.24		2.00	1.50	1.27
			100	64.54		83.33	70.07	46.66