



Demonstration School

Summary of FFT Estimates for Demonstration School in 2015

using FFT Estimates taken from FFTLive on 5th May 2013

contact: inquiry@jtb-education.co.uk

contact: <http://www.jtb-education.co.uk/>

Last updated: April 7, 2014

1 FFT Estimates for 5A*-C including English & Maths

This table summarises the FFT Estimates for the school. For each vulnerable group, the number in the cohort and the number that can be matched in the FFT database is given along with FFT-A -B and -D estimates for the % likely to gain 5A*-C including English & Maths.

5A*-C E&M Group	Number of students		FFT Estimates		
	Cohort	Matched	A	B	D
All students	179	169	64.6%	63.9%	68.3%
Boys	93	90	61.1%	60.3%	64.7%
Girls	86	79	68.6%	68.0%	72.5%
FSM	13	12	53.2%	52.9%	58.0%
Not FSM	166	157	65.5%	64.8%	69.1%
Ethnicity WBRI	154	148	64.0%	63.4%	67.8%
Not WBRI	25	21	68.8%	67.7%	71.9%
No SEN	152	143	70.3%	69.6%	74.0%
School Action	12	12	37.5%	37.0%	42.3%
SA+ & Statement	15	14	29.6%	29.3%	32.9%
English Add Lang	8	4	45.5%	45.0%	49.2%
Not EAL	171	165	65.1%	64.4%	68.8%
Lower KS2 Score	50	50	22.5%	22.2%	27.8%
Middle KS2 Score	61	61	70.2%	69.2%	75.5%
Upper KS2 Score	58	58	95.1%	94.3%	95.8%
Looked after	3	2	12.5%	11.5%	16.0%
Not Looked after	176	167	65.2%	64.6%	69.0%
Pupil Premium	33	30	53.9%	53.4%	59.0%
Not Pupil Prem	146	139	66.9%	66.2%	70.4%
FSM + LAC	15	13	50.2%	49.8%	54.8%
Not FSM or LAC	164	156	65.8%	65.1%	69.5%

2 FFT Estimates for 5A*-C

This table summarises the FFT Estimates for the school. For each vulnerable group, the number in the cohort and the number that can be matched in the FFT database is given along with FFT-A -B and -D estimates for the % likely to gain 5A*-C.

5 A*-C Group	Number of students		FFT Estimates		
	Cohort	Matched	A	B	D
All students	179	169	84.9%	84.4%	87.1%
Boys	93	90	81.2%	80.7%	83.8%
Girls	86	79	89.0%	88.5%	90.8%
FSM	13	12	81.2%	80.9%	84.3%
Not FSM	166	157	85.2%	84.6%	87.3%
Ethnicity WBRI	154	148	84.5%	84.1%	86.8%
Not WBRI	25	21	87.2%	86.6%	89.0%
No SEN	152	143	88.4%	87.9%	90.2%
School Action	12	12	71.0%	70.6%	75.2%
SA+ & Statement	15	14	60.4%	60.4%	65.3%
English Add Lang	8	4	74.8%	74.8%	78.5%
Not EAL	171	165	85.1%	84.6%	87.3%
Lower KS2 Score	50	50	64.4%	64.4%	69.7%
Middle KS2 Score	61	61	89.7%	89.0%	91.4%
Upper KS2 Score	58	58	97.4%	96.7%	97.5%
Looked after	3	2	63.0%	63.5%	69.5%
Not Looked after	176	167	85.1%	84.6%	87.3%
Pupil Premium	33	30	82.8%	82.4%	85.7%
Not Pupil Prem	146	139	85.3%	84.8%	87.4%
FSM + LAC	15	13	80.2%	79.9%	83.5%
Not FSM or LAC	164	156	85.3%	84.7%	87.4%

3 FFT Estimates for Capped Points

This table summarises the FFT Estimates for the school. For each vulnerable group, the number in the cohort and the number that can be matched in the FFT database is given along with FFT-A -B and -D estimates for the mean Capped Points score.

Capped points Group	Number of students		FFT Estimates		
	Cohort	Matched	A	B	D
All students	179	169	350.0	346.7	358.3
Boys	93	90	339.9	336.5	348.1
Girls	86	79	361.5	358.4	369.9
FSM	13	12	337.6	334.5	345.9
Not FSM	166	157	350.9	347.6	359.2
Ethnicity WBRI	154	148	349.4	346.1	357.7
Not WBRI	25	21	354.0	350.9	362.6
No SEN	152	143	358.4	355.3	366.9
School Action	12	12	309.5	306.3	317.7
SA+ & Statement	15	14	298.5	293.4	305.1
English Add Lang	8	4	322.8	318.8	330.8
Not EAL	171	165	350.7	347.4	358.9
Lower KS2 Score	50	50	296.6	292.4	303.9
Middle KS2 Score	61	61	348.5	346.0	357.6
Upper KS2 Score	58	58	397.6	394.2	405.8
Looked after	3	2	297.5	293.5	304.5
Not Looked after	176	167	350.6	347.3	358.9
Pupil Premium	33	30	340.5	337.4	348.9
Not Pupil Prem	146	139	352.1	348.7	360.3
FSM + LAC	15	13	335.2	332.0	343.4
Not FSM or LAC	164	156	351.2	347.9	359.5

4 FFT Estimates for English Baccalaureate

This table summarises the FFT Estimates for the school. For each vulnerable group, the number in the cohort and the number that can be matched in the FFT database is given along with FFT-A -B and -D estimates for the % likely to gain the English Baccalaureate. Achievement of the EBacc is heavily influenced by the curriculum being offered, so use these estimates with care. They are a combination of the probability each student might take all EBacc subjects (which is influenced as much by the school curriculum as by the pupil) and the probability that if the pupil does take all EBacc subjects, they will achieve at least a grade C in them all.

English Bacc Group	Number of students		FFT Estimates		
	Cohort	Matched	A	B	D
All students	179	169	17.3%	15.8%	19.0%
Boys	93	90	14.9%	13.2%	16.2%
Girls	86	79	20.1%	18.7%	22.3%
FSM	13	12	11.7%	11.1%	13.5%
Not FSM	166	157	17.8%	16.2%	19.5%
Ethnicity WBRI	154	148	17.3%	15.8%	19.0%
Not WBRI	25	21	17.7%	16.0%	19.5%
Ethnicity = No SEN	152	143	19.3%	17.6%	21.2%
School Action	12	12	4.2%	3.5%	4.7%
SA+ & Statement	15	14	8.7%	8.1%	9.1%
English Add Lang	8	4	7.4%	6.4%	8.6%
Not EAL	171	165	17.6%	16.0%	19.3%
Lower KS2 Score	50	50	1.3%	1.0%	1.5%
Middle KS2 Score	61	61	10.4%	8.7%	11.5%
Upper KS2 Score	58	58	38.4%	36.1%	42.1%
Looked after	3	2	0.5%	0.3%	0.6%
Not Looked after	176	167	17.5%	16.0%	19.3%
Pupil Premium	33	30	12.6%	11.6%	14.0%
Not Pupil Prem	146	139	18.4%	16.7%	20.1%
FSM + LAC	15	13	10.8%	10.3%	12.5%
Not FSM or LAC	164	156	17.9%	16.3%	19.6%

5 GCSE FFT estimates subject table

This table summarises the FFT Estimates for each GCSE Subject.

Subject	Number of students		Percentage of students				Average Points				
	Entry	Matched	estimated A*-C		estimated A*-A		FFT-A		FFT-B		FFT-D
English	179	169	74.4	73.5	76.9	18.6	16.4	41.4	41.0	41.9	41.9
Mathematics	179	169	69.0	68.4	72.2	18.7	16.7	40.1	39.8	40.8	40.8
Biology	72	70	94.9	94.2	95.5	45.2	39.4	47.2	46.4	47.3	47.3
Chemistry	72	70	93.5	92.5	94.1	45.2	39.4	47.1	46.2	47.1	47.1
Physics	72	70	94.3	93.5	94.9	44.3	38.4	47.1	46.2	47.1	47.1
Core Science	74	68	59.5	57.6	63.2	4.18	3.38	37.6	37.2	38.2	38.2
Additional Science	74	68	59.6	56.9	61.7	5.62	4.43	37.9	37.4	38.3	38.3
French	121	115	61.5	57.6	61.9	16.0	12.8	39.4	38.4	39.4	39.4
German	57	54	64.6	60.0	64.3	14.4	11.0	39.7	38.6	39.5	39.5
History	62	59	68.9	66.4	70.7	27.0	23.6	41.4	40.6	41.8	41.8
Geography	54	52	73.8	71.0	75.1	28.9	24.3	42.5	41.6	42.7	42.7
Art & Design	49	46	72.1	71.3	73.5	18.0	16.7	40.9	40.6	41.2	41.2
DT: Food	39	37	63.9	62.8	66.8	14.3	12.6	39.4	39.1	40.0	40.0
Physical Education	39	37	73.1	71.7	74.8	24.7	22.2	42.3	41.8	42.6	42.6
Health & Social	27	26	63.6	60.8	65.1	19.2	16.6	39.5	38.7	39.8	39.8

6 GCSE FFT estimates for levels of progress

This table summarises the FFT Estimates for 3 or 4 levels of progress in English and Maths GCSEs.

English			Percentage of students			
Group	Entry	Matched	3 Levels Progress		4 Levels Progress	
			FFT-B	FFT-D	FFT-B	FFT-D
English	179	169	71.3	76.2	32.8	38.6
10x/En1	31	31	74.6	79.5	33.4	39.8
10x/En2	23	21	58.0	63.6	18.3	22.9
10x/En3	13	12	65.8	71.2	26.8	31.8
10x/En4	11	11	53.9	59.1	20.3	24.2
10y/En1	31	29	75.9	80.5	40.1	46.3
10y/En2	28	26	83.0	86.8	48.2	54.7
10y/En3	27	25	72.3	77.3	30.3	36.2
10y/En4	15	14	69.7	74.9	29.4	35.1

Mathematics			Percentage of students			
Group	Entry	Matched	3 Levels Progress		4 Levels Progress	
			FFT-B	FFT-D	FFT-B	FFT-D
Mathematics	179	169	61.9	67.9	25.5	31.1
10a/Ma1	26	24	52.3	59.2	12.0	15.8
10a/Ma2	18	16	55.1	61.4	17.0	21.5
10a/Ma3	22	21	41.9	48.8	9.9	13.1
10a/Ma4	12	12	35.4	41.7	11.7	15.2
10b/Ma1	31	29	84.9	89.0	54.9	62.5
10b/Ma2	30	29	67.1	73.6	30.5	37.7
10b/Ma3	23	23	65.9	72.1	25.3	32.0
10b/Ma4	17	15	73.1	78.2	22.8	28.6

7 GCSE FFT estimates teaching groups table

This table summarises the FFT Estimates for each teaching group for each GCSE Subject.

English			Percentage of students				Average points	
Group	Entry	Matched	estimated A*-C		estimated A*-A		FFT-B	FFT-D
			FFT-B	FFT-D	FFT-B	FFT-D		
English	179	169	73.5	76.9	16.4	19.8	41.0	41.9
10x/En1	31	31	78.6	82.2	14.7	18.3	41.6	42.5
10x/En2	23	21	58.5	63.6	4.33	5.62	37.7	38.6
10x/En3	13	12	47.9	53.0	2.75	3.67	36.2	37.1
10x/En4	11	11	25.3	29.5	1.0	1.0	32.2	33.0
10y/En1	31	29	93.0	94.8	35.6	41.4	45.8	46.7
10y/En2	28	26	92.6	94.3	29.5	35.4	45.0	45.9
10y/En3	27	25	76.0	79.9	11.0	14.0	40.9	41.7
10y/En4	15	14	63.9	68.4	7.14	9.29	38.7	39.6

Mathematics			Percentage of students				Average points	
Group	Entry	Matched	estimated A*-C		estimated A*-A		FFT-B	FFT-D
			FFT-B	FFT-D	FFT-B	FFT-D		
Mathematics	179	169	68.4	72.2	16.7	20.2	39.8	40.8
10a/Ma1	26	24	60.4	66.3	3.88	5.33	37.6	38.6
10a/Ma2	18	16	47.1	52.9	2.31	3.25	35.1	36.2
10a/Ma3	22	21	32.1	37.7	1.05	1.19	32.6	33.7
10a/Ma4	12	12	16.0	19.8	1.0	1.0	28.7	29.7
10b/Ma1	31	29	97.4	98.0	52.8	60.3	48.2	49.2
10b/Ma2	30	29	89.8	92.1	25.3	31.6	43.9	44.9
10b/Ma3	23	23	85.7	89.3	14.1	18.9	42.1	43.1
10b/Ma4	17	15	73.1	78.2	4.47	6.53	39.4	40.3

Biology			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Biology	72	70	94.2	95.5	39.4	45.5	46.4	47.3
10A/St1	30	29	96.1	96.9	47.9	54.3	47.6	48.5
10A/St2	27	26	94.8	96.0	38.9	45.2	46.4	47.3
10A/St3	15	15	89.7	91.9	24.0	29.1	44.1	44.9

Chemistry			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Chemistry	72	70	92.5	94.1	39.4	45.3	46.2	47.1
10A/St1	30	29	94.6	95.9	47.8	54.0	47.5	48.4
10A/St2	27	26	93.3	94.7	39.0	45.1	46.2	47.2
10A/St3	15	15	87.2	89.6	23.9	28.8	43.8	44.7

Physics			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Physics	72	70	93.5	94.9	38.4	44.5	46.2	47.1
10A/St1	30	29	95.5	96.7	47.4	53.8	47.5	48.5
10A/St2	27	26	94.4	95.6	37.7	44.0	46.2	47.1
10A/St3	15	15	87.9	90.3	22.3	27.3	43.7	44.5

Core Science			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Core Science	74	68	57.6	63.2	3.38	4.71	37.2	38.2
10A/Sd1	29	26	76.3	81.1	6.0	8.46	40.2	41.1
10A/Sd3	18	18	54.9	60.7	2.72	3.83	36.8	37.7
10A/Sd4	27	24	39.5	45.8	1.04	1.29	34.4	35.4

Additional Science			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Additional Science	74	68	56.9	61.7	4.43	5.94	37.4	38.3
10A/Sd1	29	26	73.0	77.5	7.73	10.4	40.1	41.0
10A/Sd3	18	18	54.5	59.3	3.67	5.0	37.0	37.9
10A/Sd4	27	24	41.2	46.5	1.42	1.79	34.9	35.8

French			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
French	121	115	57.6	61.9	12.8	15.7	38.4	39.4
10A/Fr1	11	11	28.2	32.5	1.55	2.0	32.3	33.1
10A/Fr2	10	10	32.8	37.3	2.0	2.7	33.4	34.3
10b/Fr1	32	31	78.7	82.2	26.4	31.4	43.1	44.1
10b/Fr2	25	23	73.0	77.3	17.7	22.0	41.3	42.4
10b/Fr3	21	20	59.2	64.3	7.95	10.7	38.4	39.4
10b/Fr4	14	12	34.2	39.0	2.25	2.92	33.8	34.7
10b/Fr5	8	8	34.4	38.5	3.0	3.88	33.4	34.3

German			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
German	57	54	60.0	64.3	11.0	13.5	38.6	39.5
10a/De1	14	13	81.0	84.2	25.4	29.8	43.2	44.1
10a/De2	27	26	59.4	64.1	8.12	10.3	38.3	39.3
10a/De3	12	11	40.5	44.7	3.91	5.27	34.5	35.4
10a/De4	4	4	49.0	54.8	2.5	4.0	36.4	37.2

History			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
History	62	59	66.4	70.7	23.6	27.8	40.6	41.8
10/Hi1	17	16	50.6	55.6	10.7	13.3	36.6	37.8
10/Hi2	22	21	79.0	82.6	34.8	40.4	43.9	45.1
10/Hi3	23	22	66.0	70.5	22.3	26.3	40.4	41.6

Geography			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Geography	54	52	71.0	75.1	24.3	28.9	41.6	42.7
10/Gg1	22	22	71.5	75.8	23.7	28.0	41.7	42.8
10/Gg2	16	14	73.1	77.2	25.2	30.1	41.9	43.1
10/Gg3	16	16	68.6	72.4	24.5	29.3	41.1	42.2

Art & Design			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Art & Design	49	46	71.3	73.5	16.7	18.8	40.6	41.2
10/Ar1	26	24	76.7	78.7	20.8	23.4	41.9	42.5
10/Ar2	23	22	65.4	67.8	12.1	13.9	39.2	39.7

DT: Food			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
DT: Food	39	37	62.8	66.8	12.6	15.2	39.1	40.0
10/Fd1	16	16	60.8	64.7	12.9	15.3	38.8	39.7
10/Fd2	15	13	68.9	72.8	14.6	17.8	40.3	41.3
10/Fd3	8	8	56.8	61.0	8.75	11.0	37.7	38.7

Physical Education			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Physical Education	39	37	71.7	74.8	22.2	25.5	41.8	42.6
10/PE1	17	17	74.4	77.4	23.2	26.6	42.3	43.1
10/PE2	22	20	69.4	72.6	21.4	24.6	41.3	42.2

Health & Social			Percentage of students				Average points	
			estimated A*-C		estimated A*-A		FFT-B	FFT-D
Group	Entry	Matched	FFT-B	FFT-D	FFT-B	FFT-D		
Health & Social	27	26	60.8	65.1	16.6	19.7	38.7	39.8
10/HS1	19	18	58.0	62.4	14.6	17.6	38.1	39.2
10/HS2	8	8	67.2	71.0	21.0	24.6	40.1	41.2

8 Notes

- FFT produces estimates for GCSE subjects. If you have other qualifications, the estimates are for the equivalent grades, but this is likely to mislead since the pass rates for two different qualifications are unlikely to be exactly aligned with the “equivalent” points values.
- The estimates for the % A*-A rates and %A*-C rates are found as follows: the probability of achieving A*-C and A*-A for each student taking your subject is found and the mean value across the subject calculated. This is likely to be different from taking the aggregate value of the most likely grade estimates from FFT, i.e. counting up those students achieving A*-C with their most likely grades and dividing by the total number of students. This aggregation method **is the wrong way to arrive at this estimate**.
- The estimates for the average points are calculated by looking at the individual probability of getting each grade for each student. As an example, if there is a 12.5% probability of getting each grade G, F, E, D, C, B, A, A*, then each of the probabilities is multiplied by the points value of the grade (i.e. $12.5\% \times 16 + 12.5\% \times 22 + \dots + 12.5\% \times 52 + 12.5\% \times 58 = 37.0$) and this is the estimated points score for that student. The estimated point scores for all students taking that subject are then averaged to give the subject estimate.
- FFT-A estimates take into account KS2 test scores, gender and the month of birth and give an estimate assuming the student will make progress similar to that made by similar students in the past in that subject.
- FFT-B estimates also use socio-economic information about the school (but not the individual pupil). Again, the progress assumed is that of similar pupils in similar schools.
- FFT-D estimates are like FFT-B estimates, but the progress assumed is that of similar pupils in a “better school”. The definition of a “better” school is one in the top 25% of schools for progress.
- None of the FFT estimates take into account socio-economic circumstances of the individual student, so no allowance is made for students eligible for free school meals, for being in care, for having English as an Additional Language or for having any Special Need. You need to think about whether you will take any of these into account in your target-setting process.

9 Acknowledgements

Thanks to the open source software industry for developing the tools used in this analysis:

- First to the thousands of people who developed GNU/Linux and are still improving it
- Second to the R Development Core Team (2005). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. ISBN 3-900051-07-0, URL <http://www.R-project.org/>
- Finally to the TeX and LaTeX projects URL <http://www.latex-project.org/>

Thanks also to the Fischer Family Trust Data Analysis Project <http://www.fischertrust.org/> for making a wide variety of data available to help with self-evaluation and target-setting at individual, school and local authority level. Without them, this analysis would not be possible.