ATTAINMENT AND PROGRESS OF DISADVANTAGED CHILDREN AT KEY STAGE 4

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Key performance indicators at KS4

- % of students attaining a 'standard pass' (Grade 4) or above in both English and maths GCSEs
- % of students attaining a 'strong pass' (Grade 5) or above in both English and maths GCSEs
- Attainment 8 score
- Progress 8 score





Grading new GCSEs from 2017

New grading structure	Current grading structure
9	A*
8	A
6	В
5 "Strong Pass"	
4 "Standard Pas	
3	D
2	Е
1	F
781	G
U	U

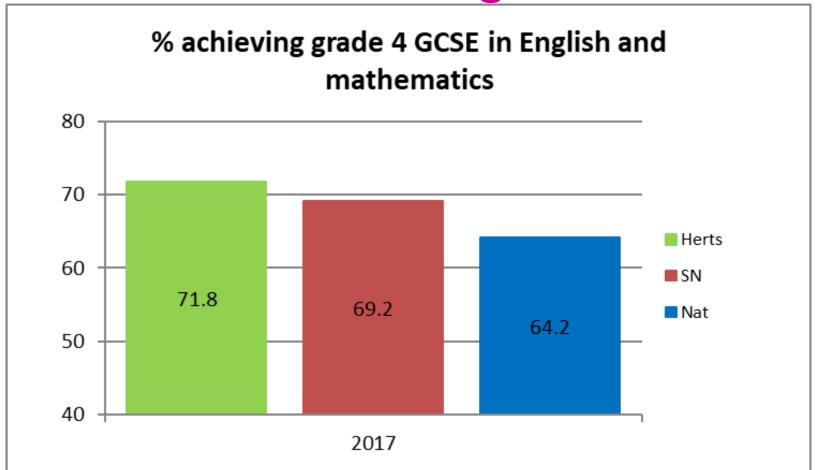
New GCSE Grade Structure

New 1-9 grades applied to English and maths in 2017; other GCSE subjects from 2018

For the purpose of calculating Attainment 8 and Progress 8 scores, A*-G grades are converted to 1-9

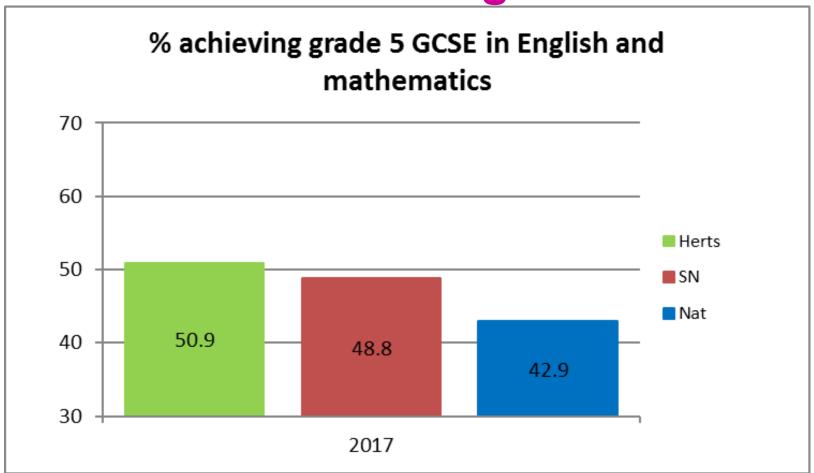


Key stage 4 – GCSE English and mathematics grade 4



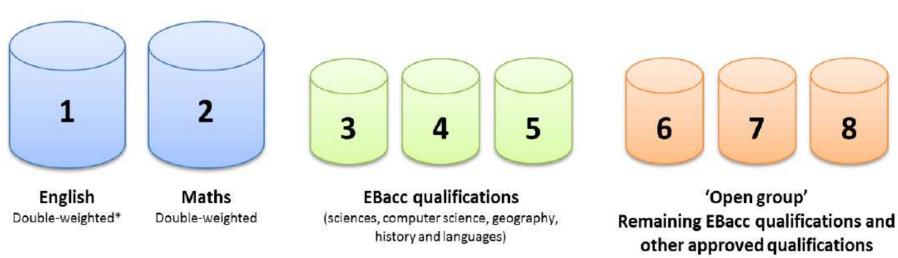


Key stage 4 – GCSE English and mathematics grade 5





Attainment 8 score



^{*}Higher score of English Language or English Literature double-weighted if a student has taken both qualifications

(GCSEs and other approved academic, arts or vocational

qualifications)

Students' grade scores are allocated to the 8 'buckets'

Buckets 1 and 2 are for English and maths GCSE – scores are doubled.

Buckets 3, 4 and 5 are for any of the 'Ebacc' subjects (GCSE only)

Buckets 6, 7 and 8 are for any remaining GCSE and/or other approved qualification.



Converting alphabetical grades to point scores in Attainment 8

GCSE grade	2016 Points	2017, 2018 and 2019 Points
A*	8.00	8.50
Α	7.00	7.00
В	6.00	5.50
С	5.00	4.00
D	4.00	3.00
Е	3.00	2.00
F	2.00	1.50
G	1.00	1.00



Calculating Attainment 8 score - example

Qualification	Grade	Points	Element	Doubled?	Total points
GCSE English language	8	8	English	Yes	16
GCSE English literature	6	6	Other		6
GCSE maths	7	7	Maths	Yes	14
GCSE French	A*	8.5	EBacc		8.5
GCSE Spanish	В	5.5	EBacc		5.5
GCSE core science	A	7	EBacc		7
GCSE additional science	В	5.5	Other		5.5
GCSE art	С	4	Other		4

Example student

Total
Attainment 8
points
= 66.5



Attainment 8 scores 2017

Herts	Statistical Neighbours	National
49.7	48.7	46.4



Calculating Progress 8 scores

- Progress 8 looks at how students have progressed from end of KS2 (primary school) to end of KS4
- It compares each student's Attainment 8 scores with the national average Attainment 8 score for students with the same end of KS2 results – example follows



Calculating the Progress 8 measure

Stage 1:

This is Charlie



Look back to how Charlie achieved at the end of Key Stage 2:

English (reading) – level 4a (fine level 4.8) Maths – level 5b (fine level 5.4)

Therefore, average fine level

$$= (4.8 + 5.4) / 2$$

$$= 5.1$$

Calculating the Progress 8 measure

Stage 1:

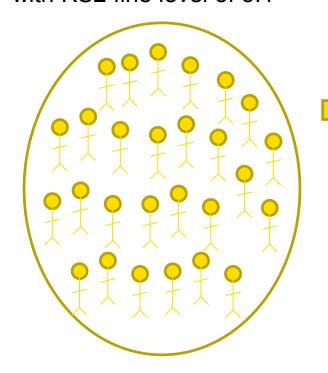
This is Charlie



Charlie's results are

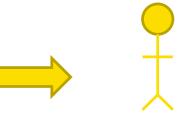
- Prior attainment (KS2) = 5.1
- KS4 Attainment 8 total score = 66.5

All other students nationally with KS2 fine level of 5.1



All these pupils' KS4 Attainment 8 totals are added together and divided by the number of pupils in the group

= average (national mean) Attainment 8 total of **59.8** Back to Charlie



He got **6.7 points** more than the average for those with similar starting points.

Divide that by 10 (the total volume of the 8 'buckets')

= +0.67 (Charlie's Progress 8 score)

KS4 Progress 8 Score

- The average of all the individual students' Progress 8 scores is the school's Progress 8 score
- A score of zero represents average progress
- Positive scores show better than average progress; negative scores show below average progress
- A Progress 8 score below -0.5 means that a school is below the DfE 'floor standard'
- National average Progress 8 score is, by definition, 0
- Herts Progress 8 score (2017) = +0.04



Performance of disadvantaged and non-disadvantaged students at KS4 in Hertfordshire

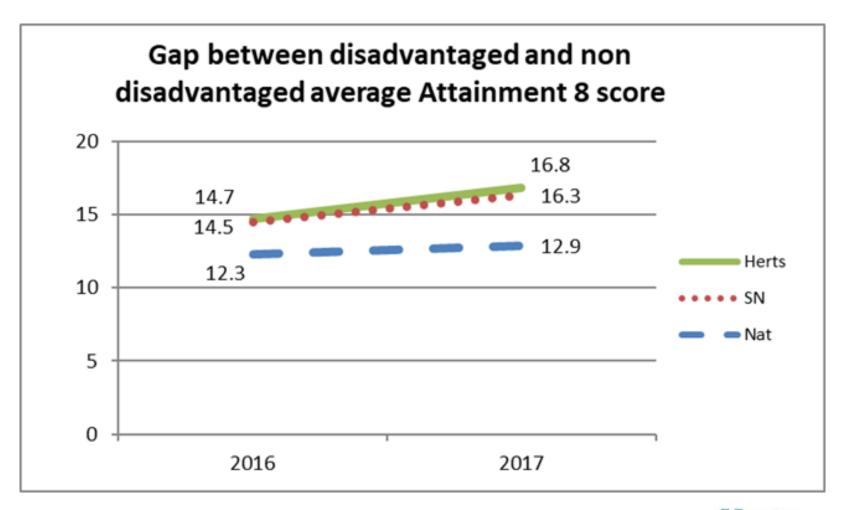
Indicator	Disadvantaged	Non- disadvantaged	Gap
% Grade 4+ in English & Maths	45.6%	77.3%	31.7 percentage points
% Grade 5+ in English & Maths	25.5%	56.2%	30.7 percentage points
Attainment 8 score	35.8	52.6	16.8
Progress 8 score	-0.57	0.17	0.74



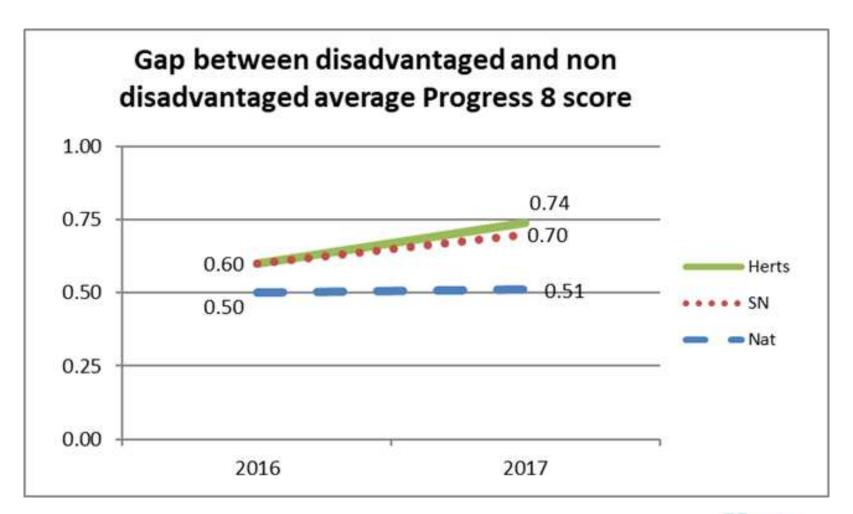
Performance of disadvantaged and non-disadvantaged students at KS4 nationally

Indicator	Disadvantaged	Non- disadvantaged	Gap
% Grade 4+ in English & Maths	44.5%	71.5%	27.0 percentage points
% Grade 5+ in English & Maths	24.5%	49.7%	25.2 percentage points
Attainment 8 score	37.1	49.9	12.8
Progress 8 score	-0.40	0.11	0.51

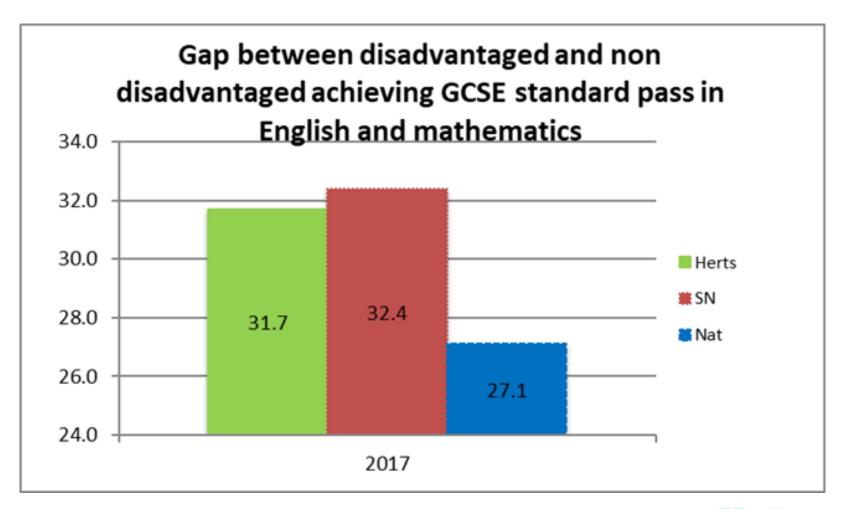




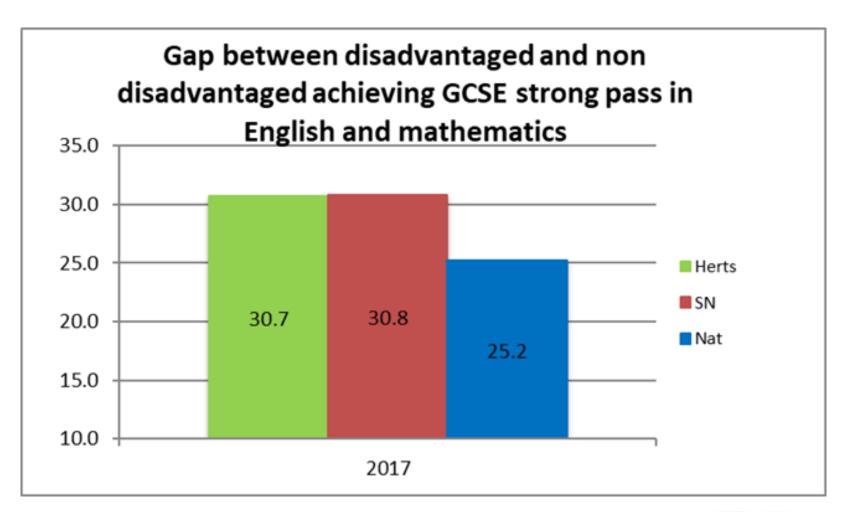




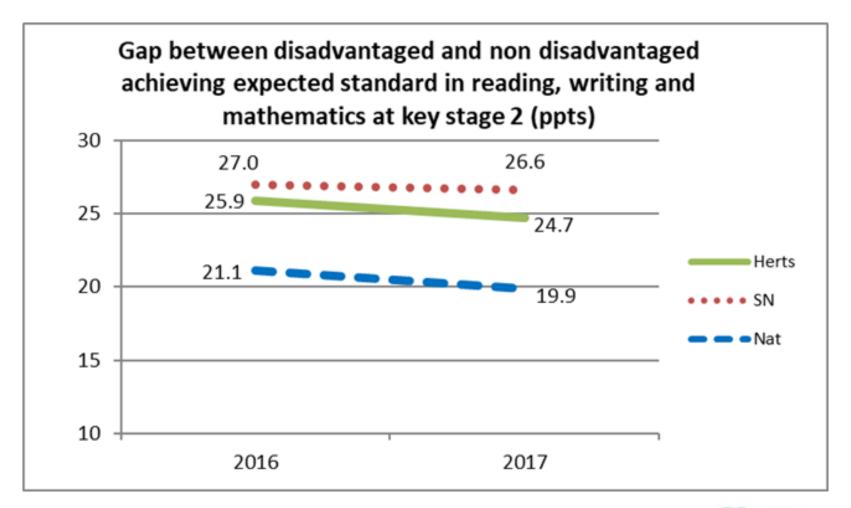






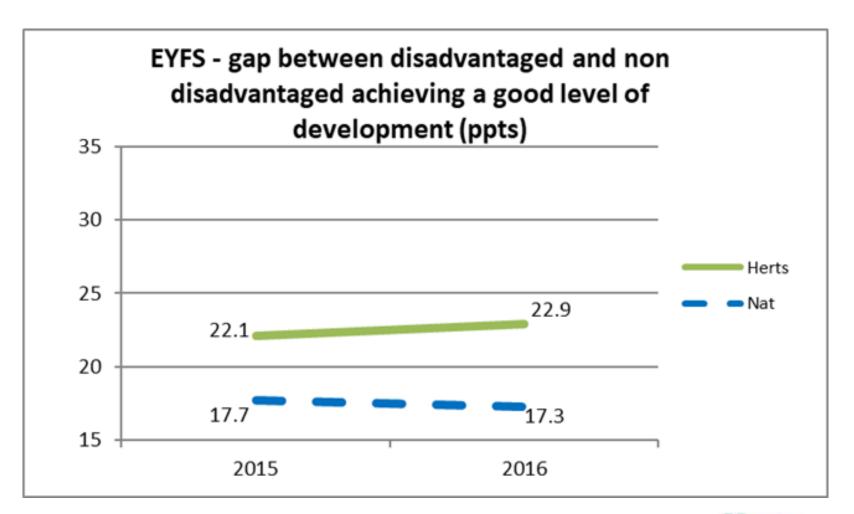








Early Years – disadvantaged gap





Key stage 4 – attainment by district

District	Average Attainment 8 - all students	Average Attainment 8 - disadvantaged students	Average Attainment 8 – non- disadvantaged students	Gap
Watford	56.02	39.63	59.05	-19.42
Hertsmere	54.57	39.98	57.79	-17.80
Welwyn Hatfield	48.11	36.91	50.73	-13.81
North Herts	50.95	39.21	52.87	-13.66
Stevenage	45.63	35.64	48.45	-12.81
Dacorum	48.46	38.01	50.62	-12.60
East Herts	56.91	45.45	57.97	-12.51
St Albans	58.67	48.66	59.71	-11.05
Three Rivers	58.23	50.86	58.92	-8.06
Broxbourne	48.87	43.73	50.31	-6.58
Herts	53.14	41.11	55.21	-14.10
National	46.1	36.6	49.5	-12.9

Key: Below national

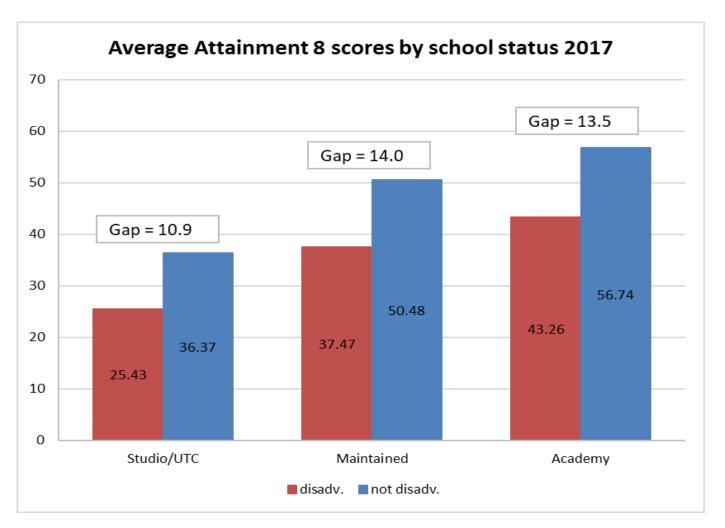


Key stage 4 – progress by district

District	Average Attainment 8 - all students	Average Attainment 8 - disadvantaged students	Average Attainment 8 – non- disadvantaged students	Gap
Watford	0.34	-0.36	0.47	-0.83
Hertsmere	0.23	-0.41	0.37	-0.78
Stevenage	-0.23	-0.82	-0.07	-0.75
Welwyn Hatfield	-0.16	-0.77	-0.02	-0.74
Dacorum	-0.12	-0.67	-0.01	-0.66
North Herts	0.05	-0.49	0.13	-0.62
St Albans	0.43	-0.04	0.48	-0.52
East Herts	0.33	-0.11	0.37	-0.48
Three Rivers	0.31	0.08	0.33	-0.25
Broxbourne	0.04	-0.08	0.08	-0.16
Herts	0.15	-0.41	0.24	-0.65
National	-0.03	-0.41	0.11	0.52

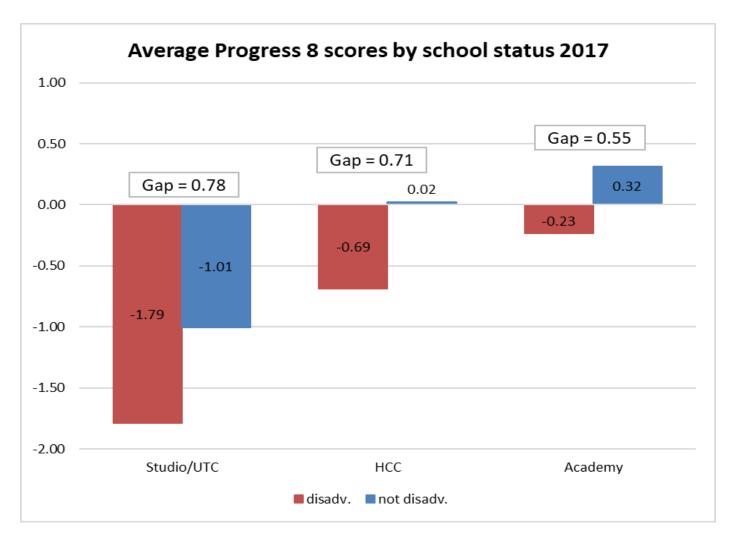
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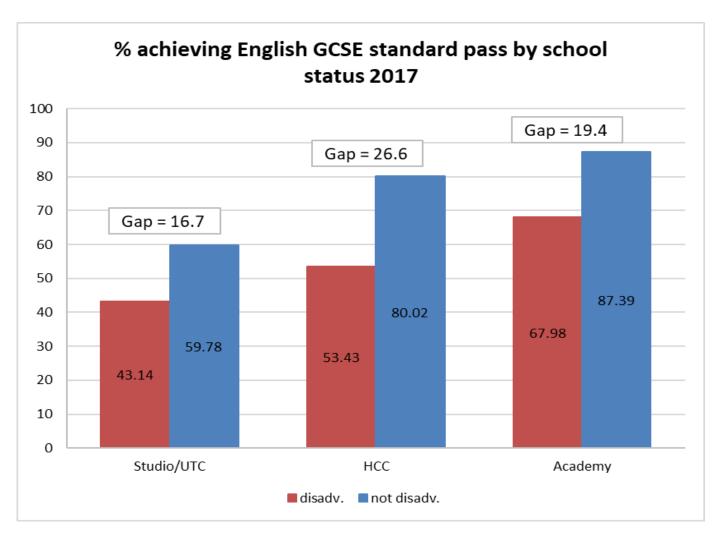




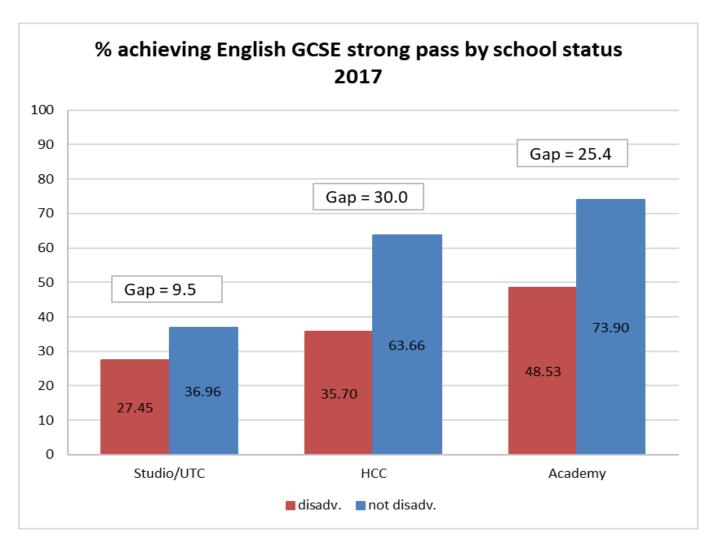
Key stage 4 – progress by school status



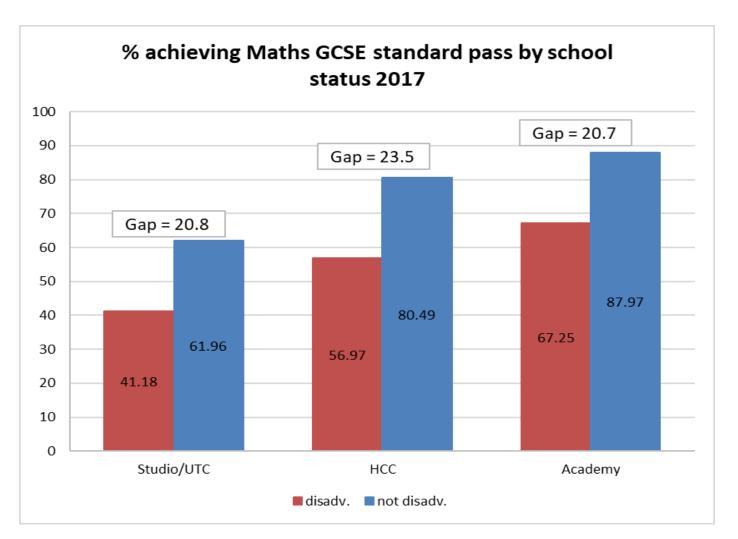




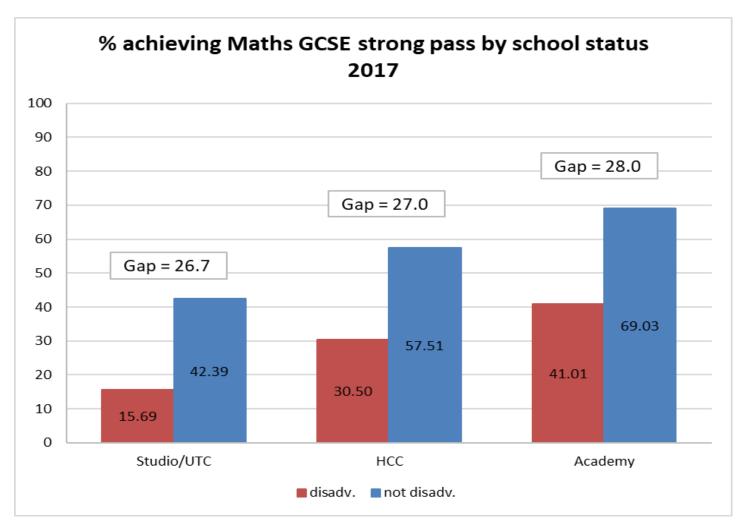






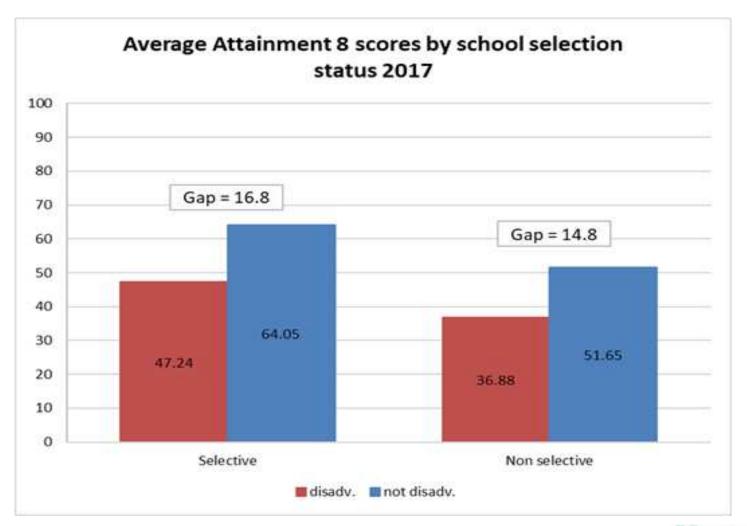








Key stage 4 – attainment by selection status





Key stage 4 – progress by selection status

