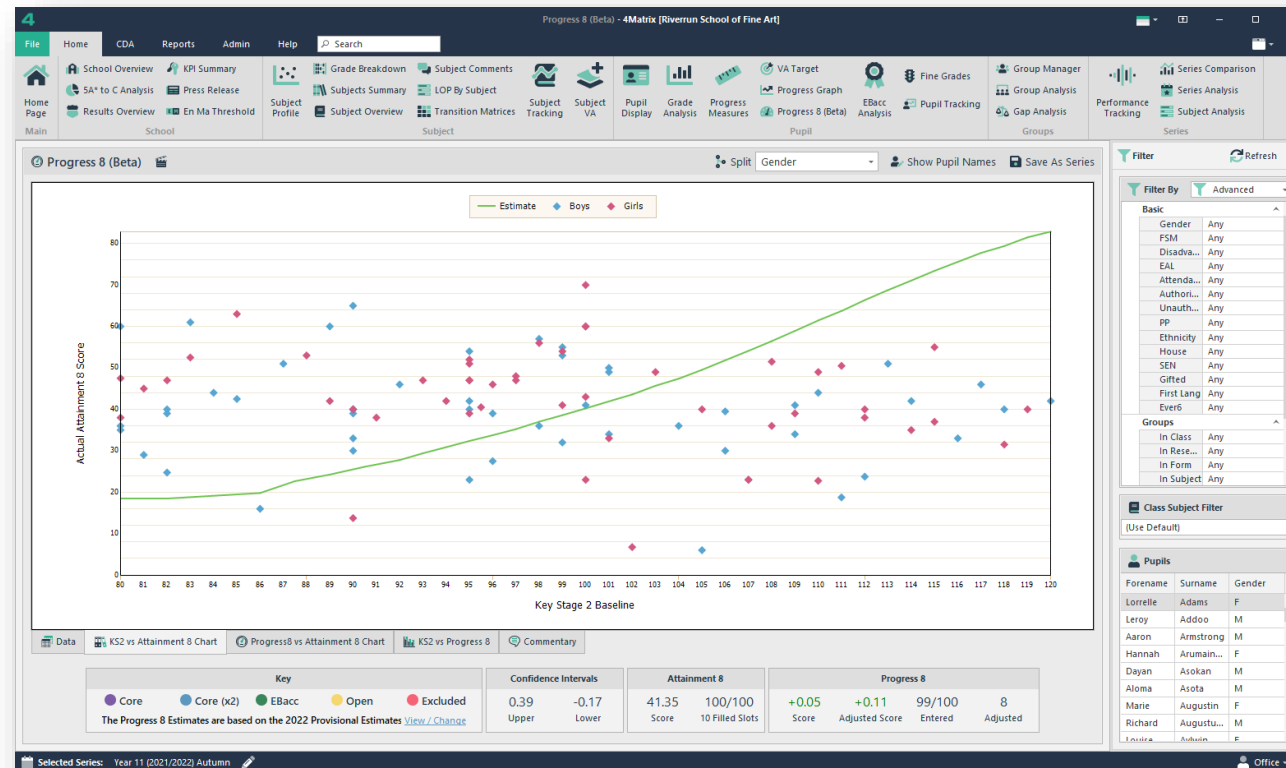


Working with Progress 8 and Current Cohorts



The objective of this webinar is to cover the considerations/implications of using 2022 or 2019 A8 estimates for indicative Progress 8 scores for current cohorts.

Notices:

- 1) Join our Facebook group: www.facebook.com/groups/4MatrixData
- 2) Register for newsletter emails from 4Matrix, email *info@4Matrix.com*

Objective of this webinar:

The objective of this webinar is to cover the considerations/implications of using 2022 or 2019 Attainment 8 Estimates for indicative Progress 8 scores for current cohorts.

The data, information and guidance contained in this webinar is correct as at 10/11/2022. It is provided for information only.

3. Introduction - What is Progress 8?

*According to the DFE Progress 8 is “... designed to encourage schools to offer a **broad and balanced curriculum** with a focus on an academic core at key stage 4.”*

- Progress 8 is a ‘Value Added’ measure.
- Progress 8 captures the progress of all students and all abilities.
- The three main elements of the Progress 8 measure are, per pupil:
 - Key stage 2 ‘base data’ (Scaled Scores for 2022 estimates, or legacy NC Level Fine Points for 2019 estimates)
 - The estimated outcome (the Attainment 8 Estimate)
 - The actual outcome (the Attainment 8 Score)
- The Progress 8 score is the difference between the estimated and actual outcome, per pupil, divided by 10.
- An Attainment 8 score is reported alongside the Progress 8 score – this reports the average grade achieved by the school.

[Secondary accountability measures: 2022 guide for maintained secondary schools, academies and free schools \(publishing.service.gov.uk\)](https://publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/103111/2022-guide-for-maintained-secondary-schools-academies-and-free-schools.pdf)



4. Introduction – Calculating Progress 8

- Student's achieve a result in English, Maths and GPS at the end of Year 6 (since 2016)
- The average of English Reading and Maths KS2 results is used to set an expected point score, per student, to achieve at the end of Year 11 – this is called the Attainment 8 Estimate
- The A8 Estimate is the total number of points a student is expected to achieve across 8 subjects, if they are to make average progress
- The A8 Estimate is not known in advance because it is an 'in-cohort' measure, but it is possible to use data from previous years to forecast Progress 8
- The Progress 8 score is the difference between what a student is expected to achieve and what they actually achieved, divided by 10

The table below shows the expected Attainment 8 points for a student with an average Scaled Score of 104. There is a total estimate and an estimate per Progress 8 Basket:

Attainment 8 Estimate using 2022 provisional estimates	
Attainment 8 Est. - 47.40	
English	10.30
Maths	9.17
EBacc	13.51
Open	14.42

If this student achieves 50 points in total, their Progress 8 score is:
 $(50 - 47.40) / 10 = +0.26$

5. Recap of past 3 years

- Up until 2022, 2019 was the last set of exams and published performance figures.
- There was no Progress 8 measure – and no Attainment 8 Estimates - in 2020 or 2021 due to CAGs and TAGs.
- Performance measures for the Y11 2022 have now been published – including Progress 8. This means we have a set of Attainment 8 Estimates from the 2022 cohort.
- Grading/attainment for the Y11 2022 cohort was set at a mid-way point between 2019 and an ‘inflated’ 2021.
- 2019 Attainment 8 Estimates were not high enough to accurately predict Progress 8 in advance. 4Matrix Share and Compare exercise did provide early indicators.

Exam Year	KS2 Baseline	A8	Exams	Published A8 Estimates
2016	NC Levels	50.1	Normal	Yes
2017	NC Levels	46.4	Normal	Yes
2018	NC Levels	46.6	Normal	Yes
2019	NC Levels	46.8	Normal	Yes
2020	NC Levels	50.2	CAGs	No
2021	Scaled Scores	50.9	TAGs	No
2022	Scaled Scores	48.8	Normal + TAGs for early entries	Yes
2023	Scaled Scores	?	Normal	Yes/expected

6. Current Year 11 – 2023 Reporting

“Getting back to normal, with protection for students.”

- 2023 = Return to pre-pandemic grading.
- An element of protection added, as used in 2017 with roll-out of new GCSE and A Level specs.
- Grade boundaries set by senior examiners, guided by performance of **pre pandemic cohorts, not just 2019 cohort**, and respective prior attainment data.
- A student who would have achieved a grade 9 pre-pandemic will be just as likely to get a 9 in 2023.
- 2023 grades will be lower than 2022 but much closer to pre-pandemic years.

[Grading exams and assessments in summer 2023 and autumn 2022 - GOV.UK \(www.gov.uk\)](https://www.gov.uk)



7. Progress 8: Current and Future Cohorts 1/2

- It is not possible to know the Progress 8 score in advance.
- Progress 8 is an ‘in-cohort’ measure as the Attainment 8 Estimates are not published until the Autumn following Exam Results days.
- Progress 8 scores reported for current cohorts are indicative only.
- Different sets of Attainment 8 Estimates will give different Progress 8 scores, even when based on same students and same results.
- The example to the right from the 4Matrix Performance Tracking tool shows the difference in Progress 8 scores for the same cohort of students but with different Attainment 8 Estimate settings.

2022 P8 Score = **-0.40** vs 2019 P8 Score = **-0.16**

Performance Tracking					
		2022/2023			
		Y11 2022 Est		Y11 2019 Est	
Title	#	%	#	%	
▼ Progress 8					
Progress 8 Entries	37	94.87	37	94.87	
Progress 8 Score	-0.4		-0.16		Different P8 scores
Attainment 8	42.69		42.69		
English Attainment 8	12.62		12.62		
Maths Attainment 8	11.23		11.23		
EBac Attainment 8	11.46		11.46		
Other Attainment 8	7.38		7.38		
English Progress 8	1.38		1.65		Different P8 scores
Maths Progress 8	1.15		1.38		
EBac Progress 8	-0.65		-0.37		
Other Progress 8	-2.37		-2.17		

8. Progress 8: Current and Future Cohorts 2/2

- It is important to be aware of the key stage 2 data currency and which Attainment 8 Estimates are being used in each series in 4Matrix.
- The table to the right shows the difference in estimates between 2019 and 2022 for a student with a Scaled Score of 104. In all cases, the 2022 estimates are higher.
- *Note: The Scaled Score must be converted to legacy NC Fine Points using a 4Matrix conversion technique to use with 2019 estimates.*
- **2019 A8 Est.** - Will likely yield a higher Progress 8 score compared to using 2022
- **2022 A8 Est.** - Will likely yield a lower Progress 8 score compared to using 2019

Type	KS2 Score	A8 Estimate	English Est.	Maths Est.	EBacc Est.	Open Est.
2019 Est.	4.9	46.51	10.13	8.94	13.17	14.27
2022. Est.	104.0	47.40	10.30	9.17	13.51	14.42
Diff.		0.89	0.17	0.23	0.34	0.15

9. Which A8 Estimates? The Positives...

2019 Attainment 8 Estimates

- We have been told results are to be brought back in line to pre-pandemic levels and 2019 is the most recent pre-pandemic cohort
- We are familiar with 2019 estimates, have been using them with various cohorts and have been aware of various caveats all along

2022 Attainment 8 Estimates

- They are the most recent set
- You can more easily compare 2023 cohort with 2022
(no conversion needed, same KS2 currency, and support for SS of less than 80)
- Schools working with 2022 estimates will be aiming high and adding more aspirational challenge as their final 2023 P8 score will likely be better against 2023 A8 estimates than 2022 estimates
- KS2 data is Scaled Scores – same as current cohorts

10. A8 2019 - Caveats

- The data set is nearly 4 years old
- Methodology is different in 2023 due to Scaled Scores and **student protection of grades** – still not like-for-like
- Changes in distribution of KS2 scores across Prior Attainment Groups (PAGs)
- To use, requires a conversion of KS2 Scaled Scores to legacy NC KS2 levels. No conversion for scores less than 80 – which may incorrectly exclude students from P8 measure
- Results are not expected to be **exactly** the same as 2019
- Do the 2019 estimates provide enough ‘challenge’ for your school?



11. A8 2022 - Caveats

- Different methods of assessment between 2022 and 2023
- Average A8 increased by 2.0 points from 46.7 in 2019 to 48.7 in 2022 - making indicative P8 likely lower than it will actually be. *Is this too much 'challenge' for your school?*
- Change in average number of quals taken - 7.90 in 2019 and 7.78 in 2022. Will it be lower again in 2023 or higher?
- English and Maths 'Strong' pass (grade 5+) significantly higher in 2022 49.6% ; 2019 43.2%
- 2022 was not typical data set - some students had TAGS from early entries in year 10 2021 which were not counted.

[Guide to GCSE results for England, summer 2022 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/statistics/gcse-results-for-england-summer-2022)



12. What is Your School Trying to Measure?

- Impact of interventions?
- Is your school still doing better than 2019 regardless of transitional grading?
- Is your 2023 cohort doing better than 2022 cohort?
- Regardless of method of measurement, is there in-year growth?



13. 4Matrix Desktop Settings

- 4Matrix update 3.9.8.4, released on 21/10/2022 added the 2022 Provisional Attainment 8 Estimates
- It also included subject data from the DfE's Transition Matrices to use with Subject Value Added (SVA)
- These have been automatically applied to all existing series for the 2021/22 Y11 and beyond. They will also apply to all newly created series for the same cohorts.
- The settings can be reviewed and changed at any time in the *Admin > Edit Series > Calculations* tab:

Edit Series

Series Details

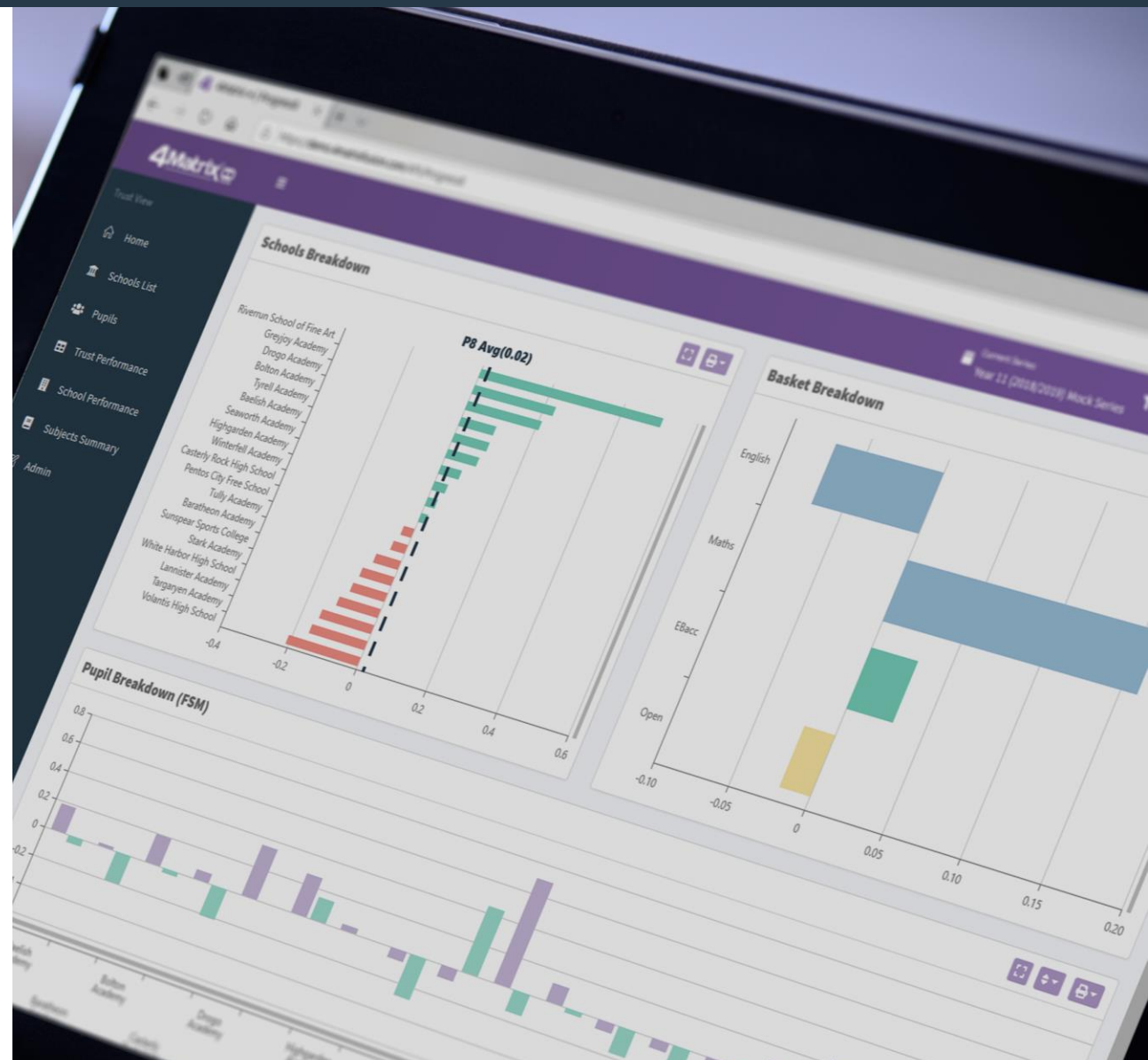
Visibility

Calculations

Basic Details		KS4					
Name	Calc Engine	Discounting	P8 Measure	Adjust	KS4SVA	English	Non GCSE Count
Academic: 2022/2023							
Year: 11							
Autumn	2023	Use First Entry (All Subjects)	2022 Provisional Estimates	0.00%	2022 National Data	Entered for Either	3

14. 4Matrix Fusion Settings

- 4Matrix Fusion is unaffected by the recent Desktop update 3.9.8.4
- Fusion reports the information that was uploaded from each school at that time (i.e. there is not a live link between the two products for continuous sync)
- For Fusion to report the 2022 Exam Results based on 2022 provisional A8 Estimates, schools will need to re-upload their data, ensuring they are using the correct settings
- Next Fusion update, due imminently, includes setting in Edit Series to specify Progress 8 calculation required by each school, preventing a mixture of series being uploaded based on different A8 Estimates
- May wish to hold on re-uploading to Fusion until update is launched because it will also support Adjusted Progress 8 scores – otherwise may need to re-upload twice.



15. Conclusion

For 2022: “The changes seen in the headline statistics likely reflect the changes in methodology for awarding grades and in calculating the measures, rather than demonstrating a difference in standards.” The same can be said of 2023 - bringing attainment back in line with pre-pandemic levels.

- **Do not use only one measure in isolation.** For example, use progress and attainment to try and triangulate results.
- What you use for P8 should also be used for SVA.
- Choose one option and stick to it - so you can measure impact and forecast.
- Make sure that whichever option you choose is the best fit for your school and that all users of this data are aware of the caveats.
- Remember: Progress 8 is an in-cohort measure and your score is not known in advance.

[Key stage 4 performance, Academic Year 2021/22 – Explore education statistics – GOV.UK \(explore-education-statistics.service.gov.uk\)](https://explore-education-statistics.service.gov.uk)



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