

Spring 2016 MCAS/PARCC Cohort Analysis

For School Committee Meeting 10/26/2016

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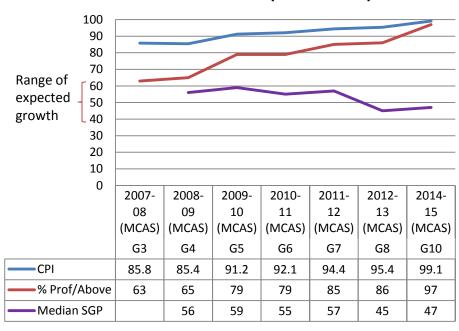
Context

- In response to School Committee's request, the following cohort analyses have been put together.
 - State assessment data tracking a particular cohort from G3 to G10 (current G12, G11, and G10 cohorts)
 - Elementary cohort data by school from G3 to G5 (current G6 cohort)
 - Achievement gap data from G3 to G5 (current G6 cohort)
 - Achievement gap data from G6 to G8 (current G9 cohort)

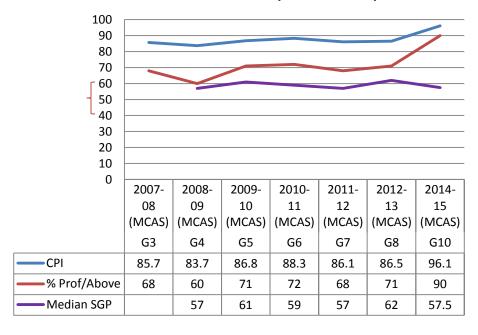


Class of 2017 (current G12)

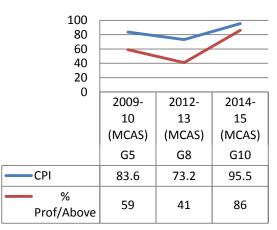
Class of 2017 (current G12) - ELA



Class of 2017 (current G12) - Math



Class of 2017 - Science

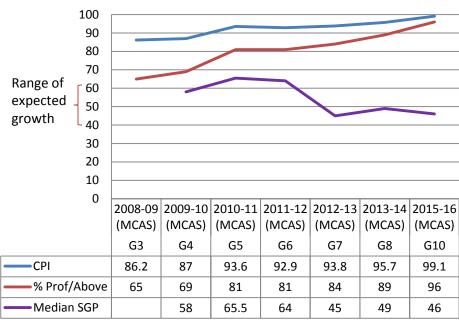


- ELA lowest CPI and % Proficient/Above in Grades 3 and 4 and then steady climb to near 100% proficiency by G10.
- Math dipped in G4, climbed back up in G5, stayed flat in middle school grades, and then upward climb in G10.
- Science dipped in G8 before climbing up again in G10.
- Median SGP is within the range of expected growth in all years

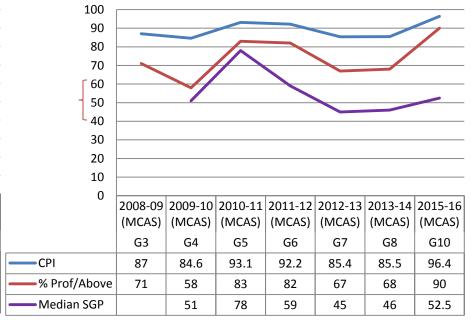


Class of 2018 (current G11)

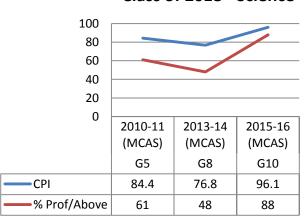
Class of 2018 (current G11) - ELA



Class of 2018 (current G11) - Math



Class of 2018 - Science

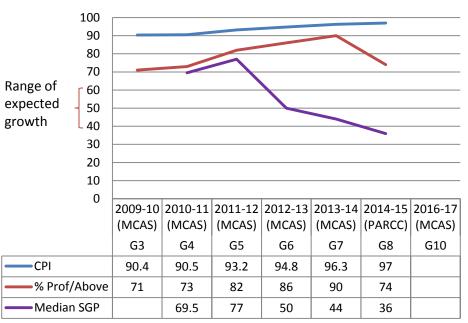


- ELA pattern still holds.
- Math dip in G4, G7 and G8
- Science pattern still holds, although the "dip" in G8 is less pronounced than the previous cohort (48% proficient/above vs. 41%)
- This cohort had higher than expected growth in G5 for ELA and Math.

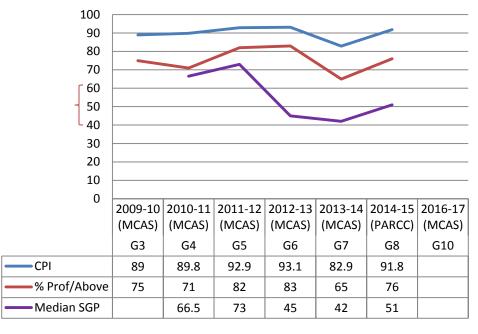


Class of 2019 (current G10)

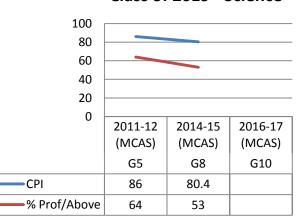
Class of 2019 (current G10) - ELA



Class of 2019 (current G10) - Math



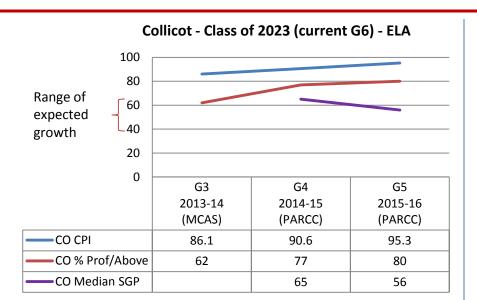
Class of 2019 - Science

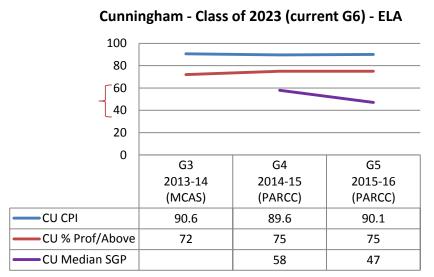


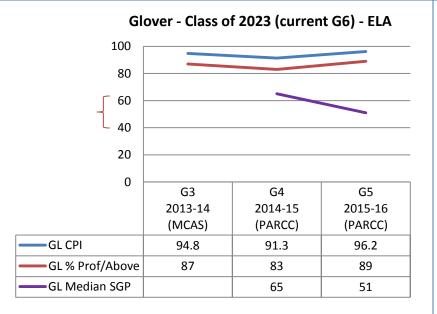
- ELA Although the CPI pattern remains the same, the pattern in % proficient/above has changed because this cohort took PARCC in G8, which has 5 levels of achievement as opposed to MCAS's four levels. PARCC is also computer-based and designed to be even more rigorous than MCAS.
- Math dipped in G4 and G7. Higher performance in G8 even though it was PARCC.
- Science the dip in G8 is even less pronounced than the previous two cohorts (53% proficient/above vs. 48% and 41%).
- Median SGP spiked in grades 4 and 5 for this cohort.

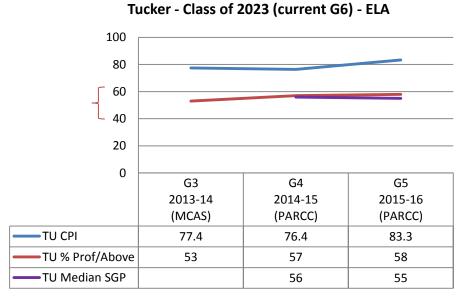


Class of 2023 (current G6) - ELA











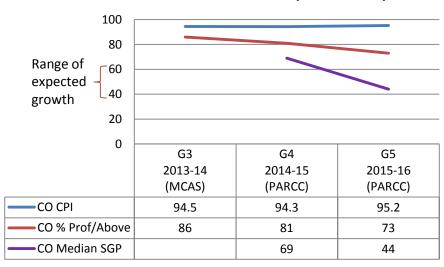
Class of 2023 (current G6) - ELA

- Note the change over to PARCC in 2014-15 and 2015-16
- As such, this cohort's data does not follow in the previous patterns of the current G10, G11 or G12 cohorts where the data is all MCAS.
- Median SGP is within or higher than the range of expected growth.
- There is a difference in performance of this cohort among the different schools.

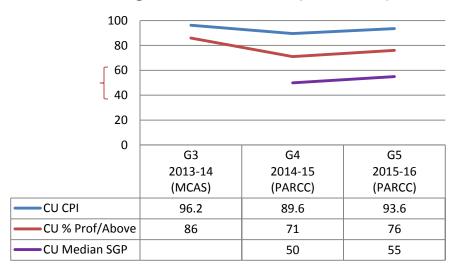


Class of 2023 (current G6) - Math

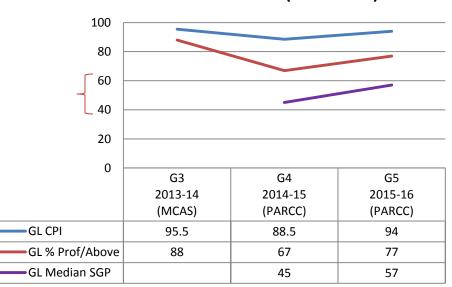
Collicot - Class of 2023 (current G6) - Math



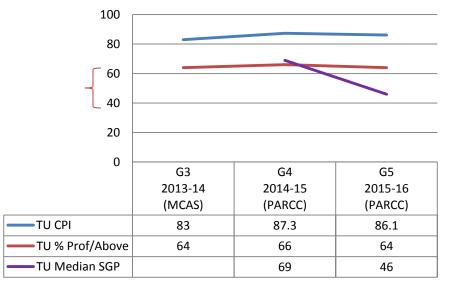
Cunningham - Class of 2023 (current G6) - Math



Glover - Class of 2023 (current G6) - Math



Tucker - Class of 2023 (current G6) - Math





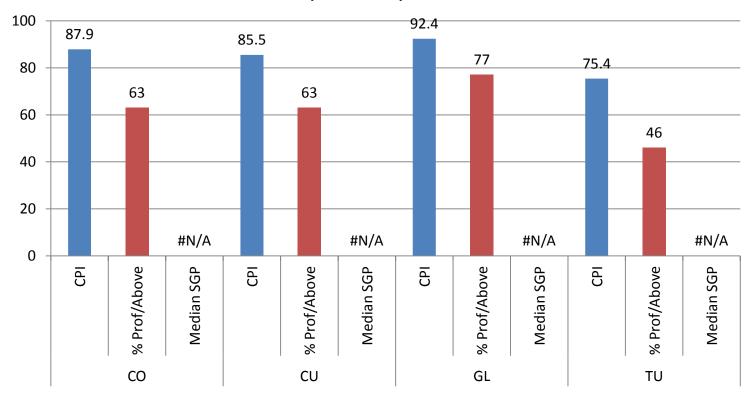
Class of 2023 (current G6) - Math

- Note the change over to PARCC in 2014-15 and 2015-16
- Median SGP is within or higher than the range of expected growth.
- The pattern of the dip in G4 is not as clear, as G5 data does not climb back up significantly. But again, the data in grades 4 and 5 data is PARCC, not MCAS.
- There is a difference in performance of this cohort among the different schools, but the difference is not as wide as in the ELA data.



Class of 2023 (current G6) - Science

Class of 2023 (current G6) - G5 Science MCAS



Notes:

- Since the Science MCAS in only given in G5 in elementary school, there is no previous year's science data for this cohort.
- There is also no SGP data for Science.



Class of 2023 (current G6) – Elementary Cohort Achievement Gap

	G3		G4		G5		
	2013-14	2013-14	2014-15	2014-15	2015-16	2015-16	Direction of
ELA	(MCAS)	CPI gap	(PARCC)	CPI gap	(PARCC)	CPI gap	gap
SWD (counterpart)	63.3 (93.4)	30.1	60 (94)	34	73.1 (96.7)	23.6	closing
AfAm/Bl	70.2 (91.2)	21	67 (92)	25	77 (95.4)	18.4	closing
EconDis	X	X	66 (91)	25	79.2 (93.5)	14.3	closing

Based on the three years of Advancement Initiatives, all the achievement gaps in ELA are closing for this particular cohort, which benefited from all three years of Advancement funding. Results in Math are more mixed. Note that the data here is combined district-wide, as most of our elementary schools individually do not have enough students in all subgroups to report out data.

Math	G3 2013-14	2013-14	G4 2014-15	2014-15	G5 2015-16		
IVIALII	(MCAS)	CPI gap	(PARCC)	CPI gap	(PARCC)	CPI gap	gap
SWD (counterpart)	75.8 (96.2)	20.4	71 (95)	24	75.4 (97.1)	21	no change
AfAm/Bl	75 (96.8)	21.8	76 (93)	17	81 (95.7)	14.7	closing
EconDis	x	X	77 (92)	15	77 (94.8)	17.8	increasing



Class of 2020 (current G9) – Middle School Cohort Achievement Gap

	G6		G7		G8		
	2013-14	2013-14	2014-15	2014-15	2015-16	2015-16	Direction of
ELA	(MCAS)	CPI gap	(PARCC)	CPI gap	(PARCC)	CPI gap	gap
SWD (counterpart)	75.8 (97.2)	21.4	71.0 (94.0)	23	85.2 (97.8)	12.6	closing
AfAm/Bl	87.8 (96.3)	8.5	79.0 (94.0)	15	92.6 (98.1)	5.5	closing
EconDis	X	X	78.0 (93.0)	15	89.4 (97.5)	8.1	closing

Following this middle school cohort, we see all the achievement gaps in ELA are also closing. Results in Math are more mixed.

	G6		G7		G8		
	2013-14	2013-14	2014-15	2014-15	2015-16	2015-16	Direction of
Math	(MCAS)	CPI gap	(PARCC)	CPI gap	(PARCC)	CPI gap	gap
SWD (counterpart)	69.5 (94.5)	25	56.0 (92.0)	36	63.9 (94.1)	30.2	increasing
AfAm/Bl	78.3 (94.7)	16.4	71.0 (92.0)	21	77.7 (94.3)	16.6	no change
EconDis	X	X	69.0 (90.0)	21	75.8 (93.2)	17.4	closing



District - Next Steps

- Our district has taken up a more robust, data-driven approach to curriculum work at every level.
 - First year all teachers at the elementary and middle schools are provided with internal/state assessments results for every child
 - Culture shift around using data to identify learning needs and strategies to address those needs
- Every year, we refine our common assessments to ensure alignment with new standards and state expectations.
 - Piloting new writing assessments in elementary schools
 - Providing PD on newly adopted Science standards
- Having common planning time at all levels to allow for more focus on curriculum work.
 - First year elementary schools have common planning time with curriculum coordinators/principals
 - Critical investment!