

Summary of Analysis for Centers for Enriched Studies and Enriched Literacy Curriculum

Helen Y. Wang, Ph.D.
Applied Research Team

The purpose of this analysis was to investigate whether there were differences in Grade 4 performance between students enrolled in Centers for Enriched Studies (CES) and students enrolled in Enriched Literacy Curriculum (ELC) at local schools, using the cohort of Grade 3 students in 2017–2018 school year when program placement took place. In the study cohort, there were 704 identified students enrolled in CES while 1727 students were enrolled in ELC in Grade 4.

The analysis was conducted to compare performance between CES and ELC participants. Grade 3 PARCC ELA and spring MAP-R data (2017–2018) of the participants were used as prior performance at program placement and same data of the participants in Grade 4 (2018–2019) were used to observe their performance after program enrollment. Data elements and analytical results are presented in Tables 1 to 3 and summarized below:

Attainment of Performance Level 3 or higher on PARCC ELA

In Grade 4, understandably, there was an overwhelmingly great majority of students met ELA performance level 3 or higher for both ELC (95.5%) and CES (100%), despite the 4.5-percentage-point difference between the two programs. Compared with the prior performance in Grade 3, the percentage remained high and increased three percentage points (92.5% to 95.5%) for ELC participants (see Table 1).

Attainment of Performance Level 4 or higher on PARCC ELA

In Grade 4, the proportion of students attaining ELA performance level 4 was about 14 percentage points higher for CES (97.9%) than for ELC (83.6%). However, the performance difference between the two programs became smaller in Grade 4 compared with the difference for the prior performance in Grade 3, which was more than 20 percentage points (75.1% vs. 95.8%). In addition, there was an increase of 8.5 percentage points from Grade 3 (75.1%) to Grade 4 (83.6%) for ELC participants in attaining ELA level 4 or higher (see Table 1).

MONTGOMERY COUNTY PUBLIC SCHOOLS, ROCKVILLE, MARYLAND

Table 1: Attainment of Performance Levels on PARCC ELA for 2017–2018 Grade 3 Cohort

Program participation	ELA level 3 or higher								ELA level 4 or higher							
	Grade 3 in 2018				Grade 4 in 2019				Grade 3 in 2018				Grade 4 in 2019			
	Not met		Met		Not met		Met		Not met		Met		Not met		Met	
n	%	n	%	n	%	n	%	n	%	n	%	n	%	n	%	
Enriched Literacy Curriculum	125	7.5	1541	92.5	78	4.5	1645	95.5	415	24.9	1251	75.1	283	16.4	1440	83.6
Centers for Enriched Studies	2	0.3	688	99.7	0	0.0	698	100	29	4.2	661	95.8	15	2.1	683	97.9

Note. Analysis included program participants with the PARCC ELA score at respective grade levels.

Attainment of 50 percentile or higher on spring MAP-R

Performance of ELC participants remained strong in Grade 4 with a slight increase from the prior performance in Grade 3 (from 89.3% to 91.0%), in terms of the percentage attaining 50 percentile or higher on spring MAP-R RIT scores. Although, ELC participants were still underperformed the CES participants in Grade 4, the difference between the programs slightly decreased from 10.4 to 8.7 percentage points.

Table 2: Attainment of 50 Percentile on Spring MAP-R RIT Scores for 2017–2018 Grade 3 Cohort

Program Participation	Grade 3 50 th percentile in 2018				Grade 4 50 th percentile in 2019			
	Not met		Met		Not met		Met	
	n	%	n	%	n	%	n	%
Enriched Literacy Curriculum	179	10.7	1487	89.3	155	9.0	1566	91.0
Centers for Enriched Studies	2	0.3	688	99.7	2	0.3	696	99.7

Note. Analysis included program participants with the spring MAP-R RIT score at respective grade levels.

Mean spring MAP-R RIT scores

The increase in the mean MAP-R RIT score from Grade 3 to Grade 4 was slightly higher for ELC participants (increased 7.83 points) than for CES participants (increased 6.74 points), though there was still a 10-point difference in the mean score between the two programs in Grade 4.

Table 3: Mean Spring MAP-R RIT Scores for 2017–2018 Grade 3 Cohort

Program participation	Grade 3 RIT score in 2018		Grade 4 RIT score in 2019	
	n	Mean RIT (SD)	n	Mean RIT (SD)
Enriched Literacy Curriculum	1666	211.33 (11.42)	1721	219.16 (11.24)
Centers for Enriched Studies	690	222.54 (8.23)	698	229.28 (8.00)

Note. Analysis included program participants with the spring MAP-R RIT score in respective grade levels.

In sum, both ELC and CES participants continued to perform excellently in standardized assessments in Grade 4 after enrollment in either of the programs. While CES participants experienced a ceiling effect in performance, small improvement from the prior performance was observed for ELC participants.