Molly Schlesinger, Ph.D.
Senior Research Associate

Roland Reyes,<br>Senior Statistician

Office of Research and Evaluation

## Trends in early literacy performance: aimsweb

 reading assessments from 2014-15 to 2018-19
## Key Findings

- Cohort analyses revealed improving performance patterns over time: across all three cohorts, in general, there seems to be a pattern of improving performance from 1st to 3rd grade as students spend more years in school.
- Cross-sectional analyses revealed different patterns between $1^{\text {st }}$ and $3^{\text {rd }}$ graders across cohorts: the performance of $1^{\text {st }}$ and $2^{\text {nd }}$ graders improved slightly or saw no change between cohorts, but 3 rd grade fluctuated more, with a higher percentages of 3 rd grade students scoring in the lowest performance group in 2018-19 than in earlier cohorts.
- For all Kindergarten cohorts, students with an Individualized Education Plan (IEP) saw a decline in performance, with increases in the percentage of students who scored in the lowest performance group from 1st grade to 3rd grade.
- For $1^{\text {st }}$ and $2^{\text {nd }}$ graders across the three Kindergarten cohorts, female students, male students, economically disadvantaged students, and English Learners demonstrated improved performance, with decreases in the percentage of students who scored in the lowest performance group across the years of interest. The pattern differed for $3^{\text {rd }}$ graders, as well as students in different racial/ethnic groups and students with IEPs.
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For the 2015-16 Kindergarten cohort, performance for students with an IEP declined from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, while performance for students without an IEP improved, thus increasing the disparity in Below Average performance between the two groups from 26 percentage points in $1^{\text {st }}$ grade to 35 percentage points in $3^{\text {rd }}$ grade.
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## Background

From 2014-15 through 2020-21, the School District of Philadelphia (SDP) assessed literacy proficiency for K-5 students using aimsweb and aimswebPlus, universal early literacy screening, benchmarking, and progress-monitoring tools from Pearson. Aimsweb was used from 2014-15 to 2016-17, and its revised version, aimswebPlus, was used from 2017-18 through 2020-21.

## Aimsweb and aimswebPlus

Aimsweb and aimswebPlus are comprised of multiple subtests that were administered to SDP students in grades K-5 three times per year. ${ }^{1}$ Students received a score based on the number of cues they correctly identified in a 60 -second period. Students were required to take one "core" assessment that provided teachers with a consistent measure of student literacy performance. Students in $1^{\text {st }}-3^{\text {rd }}$ grade each took the Reading - Curriculum Based Measurement (R-CBM) from 2014-15 to 2016-17 and Oral Reading Fluency (ORF) measure from 2017-18 to 2018-19 as their core assessment. During the transition from aimsweb to aimswebPlus, the R-CBM was renamed ORF. ${ }^{2}$ Kindergarteners took a different literacy assessment, ${ }^{3}$ and although $4^{\text {th }}$ and $5^{\text {th }}$ graders also took the R-CBM and ORF during the years of interest, this report focuses on data during students' $1^{\text {st }}$ - $3^{\text {rd }}$ grade years.

## National Percentile Rank

As part of the aimsweb and aimswebPlus assessments, students received a National Percentile Rank. A National Percentile Rank is a norm-referenced performance measure that compares students' scaled scores to a nationally representative sample of grade-level peers. The percentile rank is useful for understanding student skill development in comparison to students of the same grade nationally. Based on the number of correct responses, each student is assigned a National Percentile Rank. Percentiles range from 1-99. For example, a percentile rank of 23 indicates that the student is performing better than $23 \%$ of the nationally-normed sample based on their number of correct responses. National Percentile Ranks included in this report are from the R-CBM and ORF.

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## Performance Groups

Based on their National Percentile Rank, students were placed into one of four performance groupings (Table 1). Aimsweb provides performance groups that give us a more nuanced understanding of student performance while still allowing us to categorize students based on their performance. If our students had similar performance to the national sample, about $50 \%$ would have performed in the High Average or Above Average performance groups and the other $50 \%$ of our students would have performed in the Below Average or Low Average performance groups. While there are other ways of grouping students (by performance Tiers, for example), performance groups are useful for analyzing how students at various levels of proficiency are performing and improving over time. Performance groups were calculated from the R-CBM and ORF National Percentile Rank.

Table 1. Aimsweb and aimswebPlus assessment Percentile Rank (PR) group names and PR range

| Grouping Name | PR Score Range |
| :---: | :---: |
| Above Average | $75-99$ |
| High Average | $50-74$ |
| Low Average | $26-49$ |
| Below Average | $1-25$ |

## Identifying the Student Sample

Students were included in the analytic sample if they had aimsweb R-CBM or aimswebPlus ORF data in the spring of $1^{\text {st }}, 2^{\text {nd }}$, and $3^{\text {rd }}$ grades between the 2014-15 and 2018-19 school years. Thus, the sample consisted of students who were enrolled in SDP schools during all three years and testing windows. The resulting sample included students who were in Kindergarten in either the 2013-14, 2014-15, or 2015-16 school years because these were the only students who could have three years of aimsweb or aimswebPlus data from $1^{\text {st }}$ to $3^{\text {rd }}$ grade between 2014-15 and 2018-19. The sample was organized into three Kindergarten cohorts.

## Student Sample

The demographic makeup of the sample included in this report was consistent across the three Kindergarten cohorts (Table 2). For each cohort, between $44 \%$ and $46 \%$ of students were Black/African American and 23\% were Hispanic/Latinx. Additionally, in each cohort, between 7\% to $8 \%$ of students had an IEP and between $11 \%$ and $13 \%$ were English Learners.

Table 2. Demographic sample of students included in the aimsweb analyses

| Student Characteristic | 2013-14 <br> Kindergarten Cohort $(n=21813)$ | 2014-15 <br> Kindergarten Cohort $(n=21885)$ | 2015-16 <br> Kindergarten Cohort $(\mathrm{n}=21705)$ |
| :---: | :---: | :---: | :---: |
| Race/Ethnicity |  |  |  |
| Asian | 8\% | 8\% | 8\% |
| Black/African American | 44\% | 46\% | 45\% |
| Hispanic/Latinx | 23\% | 23\% | 23\% |
| Multi-Racial/Other | 9\% | 9\% | 10\% |
| White | 16\% | 14\% | 14\% |
| Gender |  |  |  |
| Female | 49\% | 50\% | 48\% |
| Male | 51\% | 50\% | 52\% |
| Socio-Economic Status |  |  |  |
| Econ. Disadvantaged | 72\% | 74\% | 76\% |
| Not Econ. Disadvantaged | 28\% | 26\% | 24\% |
| Special Education Status |  |  |  |
| Students with IEPs | 8\% | 7\% | 8\% |
| Students without IEPs | 92\% | 93\% | 92\% |
| English Learner Status |  |  |  |
| English Learner | 11\% | 12\% | 13\% |
| Not an English Learner | 89\% | 88\% | 87\% |

Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.
Note: See Appendix A, Table A1 for the number of students in each cell.

## Research Questions

Six related research questions guided the analyses described in this report:

1. How did performance on the spring aimsweb reading assessment change for the 2013-14 Kindergarten cohort from 2014-15 (1 $1^{\text {st }}$ grade) to 2016-17 (3 ${ }^{\text {rd }}$ grade)? Do patterns differ by demographic groups?
2. How did performance on the spring aimsweb reading assessment change for the 2014-15 Kindergarten cohort from 2015-16 (1 $1^{\text {st }}$ grade) to 2017-18 (3 ${ }^{\text {rd }}$ grade)? Do patterns differ by demographic groups?
3. How did performance on the spring aimsweb reading assessment change for the 2015-16 Kindergarten cohort from 2016-17 (1 $1^{\text {st }}$ grade) to 2018-19 (3 ${ }^{\text {rd }}$ grade)? Do patterns differ by demographic groups?
4. How did performance on the spring aimsweb reading assessment differ for $1^{\text {st }}$ graders in 2014-15, 2015-16, and 2016-17? Do patterns differ by demographic groups?
5. How did performance on the spring aimsweb reading assessment differ for $2^{\text {nd }}$ graders in 2015-16, 2016-17, and 2017-18? Do patterns differ by demographic groups?
6. How did performance on the spring aimsweb reading assessment differ for $3^{\text {rd }}$ graders in 2016-17, 2017-18, and 2018-19? Do patterns differ by demographic groups?

The analyses are presented in this report in two ways. The first is a cohort analysis in which students in the same cohort are followed from $1^{\text {st }}$ to $3^{\text {rd }}$ grade to examine changes and patterns in each group's performance across grade levels. The second analysis is cross-sectional and compares the cohorts when they were in the same grade levels in different school years to look at similarities and differences across cohorts.

## Cohort Analyses Findings

## How did performance on the spring aimsweb reading assessment change for the 2013-14 Kindergarten cohort from 2014-15 ( $1^{\text {st }}$ grade) to 2016-17 ( $3^{\text {rd }}$ grade)? Do patterns differ by demographic groups?

## How did the performance of the same cohorts of students change over time?

Across all three cohorts and school years, 48\%-49\% of students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure 1). A smaller percentage ( $44 \%-46 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3 rd grade with $42 \%-44 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with 47\% of students scoring in the Below Average aimsweb Reading performance group during spring of $3^{\text {rd }}$ grade.

Figure 1. The Percentage of students who performed in the four aimsweb performance groups from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts.


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.
For the 2013-14 Kindergarten cohort, performance for all racial/ethnic groups improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with a smaller percentage of students scoring in the Below Average group in $3^{\text {rd }}$ grade.

For the 2013-14 Kindergarten cohort, $23 \%-29 \%$ of Asian and $28 \%-33 \%$ of White students scored in the Below Average group from 201415 to 2016-17 (yellow section of stacked bars in Figure 2). In comparison, 41\%-50\% of Multi-Racial/Other students, 48\%-52\% of Black/African American students, and 54\%-63\% of Hispanic/Latinx students scored in the Below Average group from 2014-15 to 201617.

The percentage of Asian students who scored in the Below Average group decreased by six points, the percentage of Black/ African American students who scored in the Below Average group decreased by four points, the percentage of Hispanic/Latinx students who scored in the Below Average group decreased by nine points, the percentage of Multi-Racial/Other students who scored in the Below Average group decreased by nine points, and the percentage of White students who scored in the Below Average group decreased by five points from 2014-15 to 2016-17. Another interpretation is that for this cohort, performance for all racial/ethnic groups improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with a smaller percentage of students scoring in the Below Average group in $3^{\text {rd }}$ grade.

Figure 2. Percentage of students in each aimsweb performance group in the 2013-14 Kindergarten cohort from 2014-15 to 2016-17 by race/ethnicity student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2013-14 Kindergarten cohort, performance for both female and male students improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with five-to-seven-point decreases in the percentage of students scoring in the Below Average group in $3^{\text {rd }}$ grade.

For the 2013-14 Kindergarten cohort, 41\%-48\% of female students scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 3). In comparison, 46\%$51 \%$ of male students scored in the Below Average group from 2014-15 to 2016-17.

The percentage of female students who scored in the Below Average group decreased by seven points, and the percentage of male students who scored in the Below Average group decreased by five points from 2014-15 to 2016-17.

Figure 3. Percentage of students in each aimsweb performance group in the 2013-14 Kindergarten cohort from 2014-15 to 2016-17 by gender student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2013-14 Kindergarten cohort, performance for both economically disadvantaged and non-economically disadvantaged students improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade; however, a higher percentage of non-economically disadvantaged students moved out of the Below Average group than economically disadvantaged students, thus increasing the disparity in Below Average performance between the two groups from 17 percentage points in $1^{\text {st }}$ grade to 23 percentage points in $3^{\text {rd }}$ grade.

For the 2013-14 Kindergarten cohort, 49\%-55\% of economically disadvantaged students scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 4). In comparison, $26 \%-38 \%$ of non-economically disadvantaged students scored in the Below Average group from 2014-15 to 2016-17.

The percentage of economically disadvantaged students who scored in the Below Average group decreased by six points, and the percentage of non-economically disadvantaged students who scored in the Below Average group decreased by 12 points from 2014-15 to 2016-17.

Figure 4. Percentage of students in each aimsweb performance group in the 2013-14 Kindergarten cohort from 2014-15 to 2016-17 by economic disadvantage status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2013-14 Kindergarten cohort, performance for students with an IEP declined from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, while performance for students without an IEP improved, thus increasing the disparity in Below Average performance between the two groups from 27 percentage points in $1^{\text {st }}$ grade to 38 percentage points in $3^{\text {rd }}$ grade.

For the 2013-14 Kindergarten cohort, 75\%-78\% of students with an IEP scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 5). In comparison, $40 \%-48 \%$ of students without an IEP scored in the Below Average group from 201415 to 2016-17.

The percentage of students with an IEP who scored in the Below Average group increased by three points from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, and the percentage of students without an IEP who scored in the Below Average group decreased by eight points from $1^{\text {st }}$ to $3^{\text {rd }}$ grade (from 2014-15 to 2016-17).

Figure 5. Percentage of students in each aimsweb performance group in the 2013-14 Kindergarten cohort from 2014-15 to 2016-17 by special education status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2013-14 Kindergarten cohort, performance for ELs declined from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, while performance for non-ELs improved, thus increasing the disparity in Below Average performance between the two groups from 16 percentage points in $1^{\text {st }}$ grade to 24 percentage points in $3^{\text {rd }}$ grade.

For the 2013-14 Kindergarten cohort, 62\%-65\% of ELs scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 6). In comparison, 41\%-48\% of nonELs scored in the Below Average group from 2014-15 to 2016-17.

The percentage of ELs who scored in the Below Average group decreased by two points from $1^{\text {st }}$ to $2^{\text {nd }}$ grade (2014-15 to 2015-16) and increased again by three points from $2^{\text {nd }}$ to $3^{\text {rd }}$ grade (2015-16 to 2016-17). In comparison, the percentage of non-ELs who scored in the Below Average group decreased by seven points from $1^{\text {st }}$ to $3^{\text {rd }}$ grade (from 2014-15 to 2016-17).

Figure 6. Percentage of students in each aimsweb performance group in the 2013-14 Kindergarten cohort from 2014-15 to 2016-17 by EL status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

How did performance on the spring aimsweb reading assessment change for the 2014-15 Kindergarten cohort from 2015-16 ( $1^{\text {st }}$ grade) to 2017-18 ( $3^{\text {rd }}$ grade)? Do patterns differ by demographic groups?

For the 2014-15 Kindergarten cohort, performance for all racial/ethnic groups improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with a smaller percentage of students scoring in the Below Average group in $3^{\text {rd }}$ grade.

For the 2014-15 Kindergarten cohort, 20\%-27\% of Asian students scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 7). In comparison, $26 \%-30 \%$ of White students, $37 \%-45 \%$ of Multi-Racial/Other students, $47 \%-50 \%$ of Black/African American students, and 53\%-63\% of Hispanic/Latinx students scored in the Below Average group from 2015-16 to 201718. The 2014-15 Kindergarten cohort was in $1^{\text {st }}$ grade in 2015-16, $2^{\text {nd }}$ grade in 2016-17, and $3^{\text {rd }}$ grade in 2017-18.

The percentage of Asian students who scored in the Below Average group decreased by seven points, the percentage of Black/ African American students who scored in the Below Average group decreased by three points, the percentage of Hispanic/Latinx students who scored in the Below Average group decreased by 10 points, the percentage of Multi-Racial/Other students who scored in the Below Average group decreased by eight points, and the percentage of White students who scored in the Below Average group decreased by four points from 2015-16 to 2017-18. Another interpretation is that for this cohort, performance for all racial/ethnic groups improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with a smaller percentage of students scoring in the Below Average group in $3^{\text {rd }}$ grade.

Figure 7. Percentage of students in each aimsweb performance group in the 2014-15 Kindergarten cohort from 2015-16 to 2017-18 by race/ethnicity student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2014-15 Kindergarten cohort, performance for both female and male students improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with five-to-six-point decreases in the percentage of students who scored in the Below Average group in $3^{\text {rd }}$ grade.

For the 2014-15 Kindergarten cohort, 39\%-45\% of female students scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 8). In comparison, 46\%$51 \%$ of male students scored in the Below Average group from 2015-16 to 2017-18. The 2014-15 Kindergarten cohort was in $1^{\text {st }}$ grade in 2015-16, $2^{\text {nd }}$ grade in 2016-17, and $3^{\text {rd }}$ grade in 2017-18.

The percentage of female students who scored in the Below Average group decreased by six points, and the percentage of male students who scored in the Below Average group decreased by five points from 2015-16 to 2017-18.

Figure 8. Percentage of students in each aimsweb performance group in the 2014-15 Kindergarten cohort from 2015-16 to 2017-18 by gender student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.
For the 2014-15 Kindergarten cohort, performance for both economically disadvantaged and non-economically disadvantaged students improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade; however, a higher percentage of non-economically disadvantaged students moved out of the Below Average group than economically disadvantaged students, thus increasing the disparity in Below Average performance between the two groups from 14 percentage points in $1^{\text {st }}$ grade to 18 percentage points in $3^{\text {rd }}$ grade.

For the 2014-15 Kindergarten cohort, 47\%-52\% of economically disadvantaged students scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 9). In comparison, $27 \%-38 \%$ of non-economically disadvantaged students scored in the Below Average group from 2015-16 to 2017-18. The 2014-15 Kindergarten cohort was in $1^{\text {st }}$ grade in 2015-16, $2^{\text {nd }}$ grade in 2016-17, and 3rd grade in 2017-18.

The percentage of economically disadvantaged students who scored in the Below Average group decreased by five points from 2015-16 to 2017-18. In comparison, the percentage of noneconomically disadvantaged students decreased by 11 points from 2015-16 to 2016-17, and then increased by two percentage points from 2016-17 to 2017-18.

Figure 9. Percentage of students in each aimsweb performance group in the 2014-15 Kindergarten cohort from 2015-16 to 2017-18 by economic disadvantage status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.
For the 2014-15 Kindergarten cohort, performance for students with an IEP declined from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, while performance for students without an IEP improved, thus increasing the disparity in Below Average performance between the two groups from 23 percentage points in $1^{\text {st }}$ grade to 36 percentage points in $3^{\text {rd }}$ grade.

For the 2014-15 Kindergarten cohort, 70\%-75\% of students with an IEP scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 10). In comparison, $39 \%-47 \%$ of students without an IEP scored in the Below Average group from 201516 to 2017-18. The 2014-15 Kindergarten cohort was in $1^{\text {st }}$ grade in 2015-16, $2^{\text {nd }}$ grade in 2016-17, and 3 rd grade in 2017-18.

The percentage of students with an IEP who scored in the Below Average group increased by five points from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade (from 2015-16 to 2017-18). In comparison, the percentage of students without an IEP decreased by eight points from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade (from 2015-16 to 2017-18).

Figure 10. Percentage of students in each aimsweb performance group in the 2014-15 Kindergarten cohort from 2015-16 to 2017-18 by special education status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2014-15 Kindergarten cohort, performance for both ELs and non-ELs improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with an equal percentage of each group moving out of the Below Average group; however, the percentage of ELs scoring in the Below Average group was 12 percentage points higher than non-ELs.

For the 2014-15 Kindergarten cohort, 53\%-59\% of ELs scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 11). In comparison, $41 \%-47 \%$ of nonELs scored in the Below Average group from 2015-16 to 2017-18. The 2014-15 Kindergarten cohort was in $1^{\text {st }}$ grade in 2015-16, $2^{\text {nd }}$ grade in 2016-17, and 3rd grade in 2017-18.

The percentage of ELs and non-ELs who scored in the Below Average group decreased by six points from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade (from 2015-16 to 2017-18).

Figure 11. Percentage of students in each aimsweb performance group in the 2014-15 Kindergarten cohort from 2015-16 to 2017-18 by EL status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

How did performance on the spring aimsweb reading assessment change for the 2015-16 Kindergarten cohort from 2016-17 ( $1^{\text {st }}$ grade) to 2018-19 ( $3^{\text {rd }}$ grade)? Do patterns differ by demographic groups?

For the 2015-16 Kindergarten cohort, performance for all racial/ethnic groups improved from $1^{\text {st }}$ to $2^{\text {nd }}$ grade, with a smaller percentage of students scoring in the Below Average group in $2^{\text {nd }}$ grade; however, performance for most groups declined from $2^{\text {nd }}$ to $3^{\text {rd }}$ grade, with a greater percentage of students scoring in the Below Average group in $3^{\text {rd }}$ grade.

For the 2015-16 Kindergarten cohort, 25\%-30\% of Asian students scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 12). In comparison, 28\%-30\% of White students, $45 \%-50 \%$ of Multi-Racial/Other students, $48 \%-52 \%$ of Black/African American students, and 56\%-62\% of Hispanic/Latinx students scored in the Below Average group from 2016-17 to 201819. The 2015-16 Kindergarten cohort was in $1^{\text {st }}$ grade in 2016-17, $2^{\text {nd }}$ grade in 2017-18, and $3^{\text {rd }}$ grade in 2018-19.

The percentage of Asian students who scored in the Below Average group decreased by five points, the percentage of Hispanic/Latinx students who scored in the Below Average group decreased by five points, and the percentage of White students who scored in the Below Average group decreased by one point from 2016-17 to 2018-19. In comparison, the percentage of Black/African American students who scored in the Below Average group increased by three points, and the percentage of Multi-Racial/Other students who scored in the Below Average group increased by one point from 2016-17 to 2018-19. The percentage of Black/African American students, Hispanic/Latinx students, Multi-Racial/Other students, and White students who scored in the Below Average group decreased from $1^{\text {st }}$ grade to $2^{\text {nd }}$ grade, and then increased from $2^{\text {nd }}$ grade to $3^{\text {rd }}$ grade.

Figure 12. Percentage of students in each aimsweb performance group in the 2015-16 Kindergarten cohort from 2016-17 to 2018-19 by race/ethnicity student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2015-16 Kindergarten cohort, performance for female students improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade, with a one-point decrease in the percentage of students scoring in the Below Average group in $3^{\text {rd }}$ grade, while performance for male students declined, with a one-point increase in the percentage of students scoring in the Below Average group.

For the 2015-16 Kindergarten cohort, $41 \%-45 \%$ of female students scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 13). In comparison, 48\%$51 \%$ of male students scored in the Below Average group from 2016-17 to 2018-19. The 2015-16 Kindergarten cohort was in $1^{\text {st }}$ grade in 2016-17, $2^{\text {nd }}$ grade in 2017-18, and $3^{\text {rd }}$ grade in 2018-19.

The percentage of female students who scored in the Below Average group decreased by one point and the percentage of male students who scored in the Below Average group increased by one point from 2016-17 to 2018-19. The percentage of female students who scored in the Below Average group decreased from $1^{\text {st }}$ grade to $2^{\text {nd }}$ grade and then increased from $2^{\text {nd }}$ grade to $3^{\text {rd }}$ grade, although the percentage in $3^{\text {rd }}$ grade was not higher than the percentage in $1^{\text {st }}$ grade. The percentage of male students who scored in the Below Average group decreased from $1^{\text {st }}$ grade to $2^{\text {nd }}$ grade and increased from $2^{\text {nd }}$ grade to $3^{\text {rd }}$ grade, and the percentage in $3^{\text {rd }}$ grade was higher than the percentage in $1^{\text {st }}$ grade.

Figure 13. Percentage of students in each aimsweb performance group in the 2015-16 Kindergarten cohort from 2016-17 to 2018-19 by gender student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2015-16 Kindergarten cohort, performance for both economically disadvantaged and non-economically disadvantaged students saw no change from $1^{\text {st }}$ to $3^{\text {rd }}$ grade; however, the percentage of economically disadvantaged students scoring in the Below Average group was 20 to 21 percentage points higher than non-economically disadvantaged students.

For the 2015-16 Kindergarten cohort, 50\%-52\% of economically disadvantaged students scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 14). In comparison, $30 \%-31 \%$ of non-economically disadvantaged students scored in the Below Average group from 2016-17 to 2018-19. The 2015-16 Kindergarten cohort was in $1^{\text {st }}$ grade in 2016-17, $2^{\text {nd }}$ grade in 2017-18, and 3rd grade in 2018-19.

The percentage of economically disadvantaged students and non-economically disadvantaged students who scored in the Below Average group did not change from 2016-17 to 2018-19. Notably, in both populations, the percentage of students who scored in the Below Average group decreased from $1^{\text {st }}$ grade to $2^{\text {nd }}$ grade and then increased from $2^{\text {nd }}$ grade to $3^{\text {rd }}$ grade.

Figure 14. Percentage of students in each aimsweb performance group in the 2015-16 Kindergarten cohort from 2016-17 to 2018-19 by economic disadvantaged status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2015-16 Kindergarten cohort, performance for students with an IEP declined from ${ }^{1 \text { st }}$ to $3^{\text {rd }}$ grade, while performance for students without an IEP improved, thus increasing the disparity in Below Average performance between the two groups from 26 percentage points in $1^{\text {st }}$ grade to 35 percentage points in $3^{\text {rd }}$ grade.

For the 2015-16 Kindergarten cohort, 72\%-79\% of students with an IEP scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 15). In comparison, $42 \%-46 \%$ of students without an IEP scored in the Below Average group from 201617 to 2018-19. The 2015-16 Kindergarten cohort was in $1^{\text {st }}$ grade in 2016-17, $2^{\text {nd }}$ grade in 2017-18, and 3 rd grade in 2018-19.

The percentage of students with an IEP who scored in the Below Average group increased by seven points from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade (from 2016-17 to 2018-19). In comparison, the percentage of students without an IEP who scored in the Below Average group decreased from $1^{\text {st }}$ grade to $2^{\text {nd }}$ grade and then increased from $2^{\text {nd }}$ grade to $3^{\text {rd }}$ grade.

Figure 15. Percentage of students in each aimsweb performance group in the 2015-16 Kindergarten cohort from 2016-17 to 2018-19 by special education status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For the 2015-16 Kindergarten cohort, performance for ELs improved from $1^{\text {st }}$ to $3^{\text {rd }}$ grade while performance for non-ELs remained consistent, thus decreasing the disparity in Below Average performance between the two groups from 16 percentage points in $1^{\text {st }}$ grade to 11 percentage points in $3^{\text {rd }}$ grade.

For the 2015-16 Kindergarten cohort, 56\%-62\% of ELs scored in the Below Average group from 2016-17 to 2018-19 (Figure 16). In comparison, $43 \%-46 \%$ of non-ELs scored in the Below Average group from 2016-17 to 2018-19. The 2015-16 Kindergarten cohort was in $1^{\text {st }}$ grade in 2016-17, $2^{\text {nd }}$ grade in 2017-18, and 3rd grade in 2018-19.

The percentage of ELs who scored in the Below Average group deceased by six points from $1^{\text {st }}$ grade to $2^{\text {nd }}$ grade and then increased by one point from $2^{\text {nd }}$ grade to $3^{\text {rd }}$ grade (2017-18 to 201819). In comparison, the percentage of non-ELs who scored in the Below Average group decreased
by three points from $1^{\text {st }}$ grade to $2^{\text {nd }}$ grade and then increased by three points from $2^{\text {nd }}$ grade to $3^{\text {rd }}$ grade.

Figure 16. Percentage of students in each aimsweb performance group in the 2015-16 Kindergarten cohort from 2016-17 to 2018-19 by EL status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

## Cross-Sectional Analyses Findings

How did performance on the spring aimsweb reading assessment differ for 1st graders in 2014-15, 2015-16, and 2016-17? Do patterns differ by demographic groups?

Across the three Kindergarten cohorts, $1^{\text {st }}$ grade performance for nearly all racial/ethnic groups improved from 2014-15 to 2016-17, with a smaller percentage of students scoring in the Below Average group in 2016-17.

For $1^{\text {st }}$ graders across the three Kindergarten cohorts, $27 \%-30 \%$ of Asian and $30 \%-33 \%$ of White students scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 17). In comparison, 45\%-50\% of Multi-Racial/Other students, $49 \%-52 \%$ of Black/African American students, and $62 \%-63 \%$ of Hispanic/Latinx students scored in the Below Average group from 201415 to 2016-17.

The percentage of Asian students who scored in the Below Average group increased by one point and the percentage of MultiRacial/Other students who scored in the Below Average group decreased by one point from 2014-15 to 2016-17. The percentage of Black/ African American students who scored in the Below Average group decreased by three points, the percentage of Hispanic/Latinx students who scored in the Below Average group decreased by one point, and the percentage of White students who scored in the Below Average group decreased by three points from 2014-15 to 2016-17. Another interpretation is that the percentage of Asian students and Multi-Racial/Other students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, and then increased from the 2014-15 Kindergarten cohort to the 2015-16 Kindergarten cohort.

Figure 17. Percentage of $1^{\text {st }}$ graders in each aimsweb performance group from 2014-15 to 2016-17 by race/ethnicity student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $1^{\text {st }}$ grade performance for both female and male students improved from 2014-15 to 2016-17, with a three-point decrease in the percentage of female students scoring in the Below Average group and a one-point decrease for male students.

For $1^{\text {st }}$ graders across the three Kindergarten cohorts, $45 \%-48 \%$ of female students scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 18). In comparison, $50 \%-51 \%$ of male students scored in the Below Average group from 2014-15 to 201617.

The percentage of female students who scored in the Below Average group decreased by three points, and the percentage of male students who scored in the Below Average group decreased by one point from 2014-15 to 2016-17. Overall, the percentage of male and female students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 201516 Kindergarten cohort.

Figure 18. Percentage of $1^{\text {st }}$ graders in each aimsweb performance group from 2014-15 to 2016-17 by gender student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $1^{\text {st }}$ grade performance for both economically disadvantaged and non-economically disadvantaged students improved from 2014-15 to 2016-17; however, the percent decrease in the Below Average group was greater for non-economically disadvantaged students than economically disadvantaged students, thus increasing the disparity in Below Average performance between the two groups from 17 percentage points in 2014-15 to 21 percentage points in 2016-17.

For $1^{\text {st }}$ graders across the three Kindergarten cohorts, $52 \%-55 \%$ of economically disadvantaged students scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 19). In comparison, $31 \%-38 \%$ of non-economically disadvantaged students scored in the Below Average group from 2014-15 to 2016-17.

The percentage of economically disadvantaged students who scored in the Below Average group decreased by three points and the percentage of non-economically disadvantaged students who scored in the Below Average group decreased by seven points from 2014-15 to 2016-17. Overall, the percentage of economically disadvantaged and non-economically disadvantaged students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 201516 Kindergarten cohort.

Figure 19. Percentage of $1^{\text {st }}$ graders in each aimsweb performance group from 2014-15 to 2016-17 by economic disadvantage status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, ${ }^{\text {st }}$ grade performance for both students with an IEP and students without an IEP improved from 2014-15 to 2016-17; however, the percentage of students with an IEP scoring in the Below Average group was 23 to 27 percentage points higher than students without an IEP.

For $1^{\text {st }}$ graders across the three Kindergarten cohorts, $70 \%-75 \%$ of students with an IEP scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 20). In comparison, $46 \%-48 \%$ of students without an IEP scored in the Below Average group from 201415 to 2016-17.

The percentage of students with an IEP who scored in the Below Average group decreased by five points from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, and then increased by two points from the 2014-15 Kindergarten cohort to the 2015-16 Kindergarten cohort. The percentage of students without an IEP who scored in the Below Average group decreased by two points from 2014-15 to 2016-17.

Figure 20. Percentage of $1^{\text {st }}$ graders in each aimsweb performance group from 2014-15 to 2016-17 by special education status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, ${ }^{\text {st }}$ grade performance for both ELs and non-ELs improved from 2014-15 to 2016-17; however, the percentage of ELs scoring in the Below Average group was 16 percentage points higher than nonELs.

For $1^{\text {st }}$ graders across the three Kindergarten cohorts, $59 \%-64 \%$ of ELs scored in the Below Average group from 2014-15 to 2016-17 (yellow section of stacked bars in Figure 21). In comparison, $46 \%-48 \%$ of ELs scored in the Below Average group from 2014-15 to 2016-17.

The percentage of ELs who scored in the Below Average group decreased by five points from 201415 to 2015-16, and then increased by three points from 2015-16 to 2016-17. The percentage of students without an IEP who scored in the Below Average group decreased by two points from 2014-15 to 2016-17.

Figure 21. Percentage of $1^{\text {st }}$ graders in each aimsweb performance group from 2014-15 to 2016-17 by EL status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

How did performance on the spring aimsweb reading assessment differ for 2nd graders in 2015-16, 2016-17, and 2017-18? Do patterns differ by demographic groups?
Across the three Kindergarten cohorts, $2^{\text {nd }}$ grade performance for Asian students, Multi-Racial/Other students, and White students improved from 2015-16 to 2016-17, with a smaller percentage of students scoring in the Below Average group; however, $2^{\text {nd }}$ grade performance then declined from 2016-17 to 2017-18, with a greater percentage of students scoring in the Below Average group.

For $2^{\text {nd }}$ graders across the three Kindergarten cohorts, $21 \%-25 \%$ of Asian students scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 22). In comparison, $27 \%-30 \%$ of White students, $40 \%-46 \%$ of Multi-Racial/Other students, $48 \%-50 \%$ of Black/African American students, and 56\%-59\% of Hispanic/Latinx students scored in the Below Average group from 2015-16 to 2017-18.

The percentage of Asian students who scored in the Below Average group increased by two points from 2015-16 to 2017-18. The percentage of Black/African American students who scored in the Below Average group decreased by two points, the percentage of Hispanic/Latinx students who scored in the Below Average group decreased by three points, the percentage of Multi-Racial/Other students who scored in the Below Average group decreased by one point, and the percentage of White students who scored in the Below Average group decreased by two points from 2015-16 to 2017-18. Another interpretation is that the percentage of Asian students, MultiRacial/Other students, and White students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, and then increased from the 2014-15 Kindergarten cohort to the 2015-16 Kindergarten cohort. The percentage of Black/African American students and Hispanic/Latinx students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort.

Figure 22. Percentage of $2^{\text {nd }}$ graders in each aimsweb performance group from 2015-16 to 2017-18 by race/ethnicity student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $2^{\text {nd }}$ grade performance for both female and male students improved from 2015-16 to 2017-18, with a two-point decrease in the percentage of female students scoring in the Below Average group and a one-point decrease for male students.

For $2^{\text {nd }}$ graders across the three Kindergarten cohorts, $41 \%-43 \%$ of female students scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 23). In comparison, $48 \%-49 \%$ of male students scored in the Below Average group from 2015-16 to 201718.

The percentage of female students who scored in the Below Average group decreased by two points and the percentage of male students who scored in the Below Average group decreased by one point from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort. The percentage of female and male students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort.

Figure 23. Percentage of $2^{\text {nd }}$ graders in each aimsweb performance group from 2015-16 to 2017-18 by gender student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $2^{\text {nd }}$ grade performance for both economically disadvantaged and non-economically disadvantaged students improved from 2015-16 to 2017-18; however, the percent decrease in the Below Average group was greater for non-economically disadvantaged students than economically disadvantaged students, thus increasing the disparity in Below Average performance between the two groups from 18 percentage points in 2015-16 to 20 percentage points in 2017-18.

For $2^{\text {nd }}$ graders across the three Kindergarten cohorts, $49 \%-51 \%$ of economically disadvantaged students scored in the Below Average group from the 2013-14 to the 2015-16 Kindergarten cohort (yellow section of stacked bars in Figure 24). In comparison, $27 \%-33 \%$ of non-economically disadvantaged students scored in the Below Average group from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort.

The percentage of economically disadvantaged students who scored in the Below Average group decreased by one point, and the percentage of non-economically disadvantaged students who scored in the Below Average group decreased by three points from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort. The percentage of economically disadvantaged and non-economically disadvantaged students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort and increased in the 2015-16 cohort.

Figure 24. Percentage of $2^{\text {nd }}$ graders in each aimsweb performance group from 2015-16 to 2017-18 by economic disadvantage status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $2^{\text {nd }}$ grade performance for students with an IEP did not change from 2015-16 to 2017-18, while performance for students without an IEP improved, thus increasing the disparity in Below Average performance between the two groups from 32 percentage points in 2015-16 to 34 percentage points in 2017-18.

For 2nd graders across the three Kindergarten cohorts, $72 \%-76 \%$ of students with an IEP scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 25). In comparison, $42 \%-44 \%$ of students without an IEP scored in the Below Average group from 201516 to 2017-18.

The percentage of students with an IEP who scored in the Below Average group decreased by four points from 2015-16 to 2016-17 and increased by four points from 2016-17 to 2017-18. The percentage of students without an IEP who scored in the Below Average group decreased by two points from 2015-16 to 2017-18.

Figure 25. Percentage of $2^{\text {nd }}$ graders in each aimsweb performance group from 2015-16 to 2017-18 by special education status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $2^{\text {nd }}$ grade performance for both ELs and non-ELs improved from 2015-16 to 2017-18; however, the percent decrease in the Below Average group was greater for ELs than non-ELs, thus decreasing the disparity in Below Average performance between the two groups from 18 percentage points in 2015-16 to 13 percentage points in 2017-18.

For 2nd ${ }^{\text {nd }}$ graders across the three Kindergarten cohorts, $55 \%-62 \%$ of ELs scored in the Below Average group from 2015-16 to 2017-18 (yellow section of stacked bars in Figure 26). In comparison, 43\%-44\% of non-ELs scored in the Below Average group from 2015-16 to 2017-18.

The percentage of ELs who scored in the Below Average group decreased by seven points from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort and increased by one point from the 2014-15 Kindergarten cohort to the 2015-16 Kindergarten cohort. The percentage of non-ELs who scored in the Below Average group decreased by one point from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort.

Figure 26. Percentage of $2^{\text {nd }}$ graders in each aimsweb performance group from 2015-16 to 2017-18 by EL status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

How did performance on the spring aimsweb reading assessment differ for 3rd graders in 2016-17, 2017-18, and 2018-19? Do patterns differ by demographic groups?

Across the three Kindergarten cohorts, $3^{\text {rd }}$ grade performance for all racial/ethnic groups improved from 2016-17 to 2017-18, with a smaller percentage of students scoring in the Below Average group; however, $3^{\text {rd }}$ grade performance then declined from 2017-18 to 2018-19, with a greater percentage of students scoring in the Below Average group.

For 3rd graders across the three Kindergarten cohorts, $20 \%-25 \%$ of Asian and $26 \%-29 \%$ of White students scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 27). In comparison, 37\%-50\% of Multi-Racial/Other students, $47 \%-52 \%$ of Black/African American students, and 53\%-57\% of Hispanic/Latinx students scored in the Below Average group from 2016-17 to 2018-19.

The percentage of Asian students who scored in the Below Average group increased by two points, the percentage of Black/ African American students who scored in the Below Average group increased by four points, the percentage of Hispanic/Latinx students who scored in the Below Average group increased by three points, the percentage of Multi-Racial/Other students who scored in the Below Average group increased by nine points, and the percentage of White students who scored in the Below Average group increased by one point from 2016-17 to 2018-19. Another interpretation is that the percentage of students in all race/ethnicity groups who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, and then increased from the 2014-15 Kindergarten cohort to the 2015-16 Kindergarten cohort.
Figure 27. Percentage of 3rd graders in each aimsweb performance group from 2016-17 to 2018-19 by race/ethnicity student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $3^{\text {rd }}$ grade performance for both female and male students declined from 2016-17 to 2018-19, with a three-point increase in the percentage of female students scoring in the Below Average group and a five-point increase for male students.

For 3rd graders across the three Kindergarten cohorts, $39 \%-44 \%$ of female students scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 28). In comparison, $46 \%-51 \%$ of male students scored in the Below Average group from 2016-17 to 201819.

The percentage of female students who scored in the Below Average group increased by three points, and the percentage of male students who scored in the Below Average group increased by five points from 2016-17 to 2018-19. Another interpretation is that the percentage of female students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, and then increased from the 2014-15 Kindergarten cohort to the 2015-16 Kindergarten cohort. In comparison, the percentage of male students who scored in the Below Average group increased from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort.

Figure 28. Percentage of $3^{\text {rd }}$ graders in each aimsweb performance group from 2016-17 to 2018-19 by gender student group


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $3^{\text {rd }}$ grade performance for both economically disadvantaged and non-economically disadvantaged students declined from 2016-17 to 2018-19; however, the percent increase in the Below Average group was greater for non-economically disadvantaged students than economically disadvantaged students, thus decreasing the disparity in Below Average performance between the two groups from 23 percentage points in 2016-17 to 21 percentage points in 2018-19.

For 3rd graders across the three Kindergarten cohorts, 47\%-52\% of economically disadvantaged students scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 29). In comparison, $26 \%-31 \%$ of non-economically disadvantaged students scored in the Below Average group from 2016-17 to 2018-19.

The percentage of economically disadvantaged students who scored in the Below Average group increased by three points and the percentage of non-economically disadvantaged students who scored in the Below Average group increased by five points from 2016-17 to 2018-19. Another interpretation is that the percentage of economically disadvantaged students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, and then increased from the 2014-15 to the 2015-16 Kindergarten cohort. In comparison, the percentage of non-economically disadvantaged students who scored in the Below Average group increased from the 2013-14 to the 2015-16 Kindergarten cohort.

Figure 29. Percentage of $3^{\text {rd }}$ graders in each aimsweb performance group from 2016-17 to 2018-19 by economic disadvantage status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $3^{\text {rd }}$ grade performance for both students with an IEP and students without an IEP declined from 2016-17 to 2018-19; however, the percent increase in the Below Average group was greater for students without an IEP than students with an IEP, thus decreasing the disparity in Below Average performance between the two groups from 38 percentage points in 2016-17 to 35 percentage points in 2018-19.

For 3rd graders across the three Kindergarten cohorts, $75 \%-79 \%$ of students with an IEP scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 30). In comparison, $39 \%-44 \%$ of students without an IEP scored in the Below Average group from 201617 to 2018-19.

The percentage of students with an IEP who scored in the Below Average group decreased by three points from 2016-17 to 2017-18 and increased by four points from 2017-18 to 2018-19. The percentage of students without an IEP who scored in the Below Average group decreased by one percentage point from 2016-17 to 2017-18 and increased by five percentage points from 2017-18 to 2018-19.

Figure 30. Percentage of $3^{\text {rd }}$ graders in each aimsweb performance group from 2016-17 to 2018-19 by special education status


3rd Graders
$\square$ Below Average ■ Low Average ■ High Average ■ Above Average
Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across the three Kindergarten cohorts, $3^{\text {rd }}$ grade performance for ELs improved from 2016-17 to 2018-19, while the performance for non-ELs declined, thus decreasing the disparity in Below Average performance between the two groups from 24 percentage points in 2016-17 to 11 percentage points in 2018-19.

For 3rd graders across the three Kindergarten cohorts, $53 \%-65 \%$ of ELs scored in the Below Average group from 2016-17 to 2018-19 (yellow section of stacked bars in Figure 31). In comparison, $41 \%-46 \%$ of non-ELs scored in the Below Average group from 2016-17 to 2018-19.

The percentage of ELs who scored in the Below Average group decreased by 12 points from 201617 to 2017-18 and increased by four points from 2017-18 to 2018-19. The percentage of non-ELs increased by five percentage points from 2016-17 to 2018-19.

Figure 31. Percentage of $3^{\text {rd }}$ graders in each aimsweb performance group from 2016-17 to 2018-19 by EL status


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

## Conclusions

This report analyzed the performance patterns of $1^{\text {st }}, 2^{\text {nd }}$, and $3^{\text {rd }}$ graders who took the aimsweb Reading - Curriculum Based Measurement (R-CBM) from 2014-15 to 2016-17 and/or the aimswebPlus Oral Reading Fluency (ORF) assessment from 2017-18 to 2018-19 during spring of each year. The aim was to examine patterns in cohort performance over time and patterns between students in the same grade levels across different years.

## How did the performance of students within the same cohort change over time?

Looking within student groups, on average, students in the 2013-14 Kindergarten cohort and 201415 Kindergarten cohort followed similar patterns between students' $1^{\text {st }}$ through $3^{\text {rd }}$ grade years, while the 2015-16 Kindergarten cohort followed slightly different patterns.

For example, for the 2013-14 Kindergarten cohort and 2014-15 Kindergarten cohort, students in all racial/ethnic groups, both male and female students, and economically disadvantaged students saw improved performance, with decreases in the percentage of students who scored in the Below Average group from 1st grade to 3rd grade. These patterns demonstrate overall declines in the percentage of students scoring in the lowest aimsweb and aimswebPlus performance group and increases in the higher performance groups.

In comparison, performance trends for the 2015-16 Kindergarten cohort were more mixed. The Below Average group saw decreases in the percentage of students in all racial/ethnic groups from 1st grade to 2nd grade, but there was no change or an increase from 2nd to 3rd grade; female students saw a slight decrease in the Below Average group from $1^{\text {st }}$ to $3^{\text {rd }}$ grade while male students saw a slight increase. Like the student racial/ethnic group findings for the 2015-16 Kindergarten cohort, economically disadvantaged students saw no change in the percentage of students who scored in the Below Average group from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade.

English Learners (ELs) and students with an IEP did not follow the same average trends over time across the three cohorts. For the 2014-15 Kindergarten cohort and 2015-16 Kindergarten cohort, ELs saw a five-to-six-point decrease in the percentage of students who scored in the Below Average group from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade. Unlike the later cohorts, ELs in the 2013-14 Kindergarten cohort saw a one percentage point increase in the percentage of students who scored in the Below Average group from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade.

In comparison, students with IEPs saw incrementally increasing percentages of students scoring in the Below Average group from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for all three cohorts. That is, the 2013-14 Kindergarten cohort saw a three-point increase, the 2014-15 Kindergarten cohort saw a five-point increase, and the 2015-16 Kindergarten cohort saw a seven-point increase in the percentage of students with an IEP scoring in the Below Average group from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade.

## How did the performance of students in the same grade levels differ between cohorts?

First grade students had improved performance across cohorts, meaning that each year, a smaller percentage of first graders scored in the Below Average performance group.

Examining student performance between the same grade level across cohorts demonstrated inconsistent patterns by grade level. For example, first graders tended to have similar patterns across student groups. Students in all racial/ethnic groups, male and female students, economically disadvantaged students, students with an IEP, and ELs all saw a decline in the percentage of $1^{\text {st }}$ graders scoring in the Below Average group from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort. Another way to consider this is that over time, fewer students ended first grade in the Below Average group than the cohort before them.

## Second grade students showed improved performance in some instances and a lack of movement in others, which resulted in little change in the percentage of second graders scoring in the Below Average performance group across school years.

Second graders saw less consistent patterns over time. For 2nd graders across the three Kindergarten cohorts, the percentage of Asian, Multi-Racial/Other, and White students who scored in the Below Average group decreased from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, followed by an increase in the 2015-16 Kindergarten cohort.

In comparison, on average, male, female, and economically disadvantaged $2^{\text {nd }}$ graders saw a one-to-two-point decline in the percentage of students scoring in the Below Average group from the 201314 Kindergarten cohort to the 2015-16 Kindergarten cohort. Similarly, $2^{\text {nd }}$ grade ELs saw a sixpoint decrease in the percentage of students who scored in the Below Average group from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort. Another way to consider this is that over time, fewer ELs ended second grade in the Below Average group than the cohort before them.

Unlike the other student groups, 2nd graders across the three Kindergarten cohorts, and students with an IEP saw little to no change in the percentage of students who scored in the Below Average group from the 2013-14 to the Kindergarten cohort to the 2015-16 Kindergarten cohort.

## Third grade students generally showed a decline in performance over time, with more third graders scoring in the Below Average group.

Third graders experienced general increases in Below Average percentages across the three cohorts. For example, while the percentage of students in all racial/ethnic groups who scored in the Below Average group saw a decrease from the 2013-14 Kindergarten cohort to the 2014-15 Kindergarten cohort, the percentage then increased by an even greater amount from the 2014-15 Kindergarten cohort to the 2015-16 Kindergarten cohort.

Additionally, female students, male students, economically disadvantaged students, and students with an IEP across the three Kindergarten cohorts saw an increase in the percentage of students who scored in the Below Average group from the 2013-14 to the Kindergarten cohort to the 201516 Kindergarten cohort. Another way to consider this is that over time, more female students, male students, economically disadvantaged students, and students with an IEP ended third grade in the Below Average group than the cohort before them.

As a notable exception, ELs saw an eight-point decrease in the percentage of students who scored in the Below Average group from the 2013-14 Kindergarten cohort to the 2015-16 Kindergarten cohort. Another way to consider this is that over time, fewer ELs ended third grade in the Below Average group than the cohort before them. The decrease in the percentage of ELs scoring in the Below Average group from earlier cohorts-in comparison to female students, male students, economically disadvantaged students, and students with an IEP who experienced increases-may be reflecting the English skills that ELs gained throughout the previous years, increasing their overall reading performance.

## By looking at the data in different ways, new patterns are revealed

## Cohort analyses revealed improving performance patterns over time.

A benefit to an analysis that compares student cohorts across years is that it allows us to examine patterns for the same students over time. When we focused on the cohort analysis (Figures 2-16), we saw that in general, student groups experienced similar patterns across time. For example, across all three cohorts, the percentage of students scoring in the Below Average group appeared to be declining. There were some exceptions for certain student groups, but in general, there seems to be a pattern of improving performance from $1^{\text {st }}$ to $3^{\text {rd }}$ grade as students spend more years in school.

## Cross-sectional analyses revealed different patterns between $1^{\text {st }}$ and $3^{\text {rd }}$ graders across cohorts.

When we compare student grade levels cross-sectionally (Figures 17-31), different patterns emerge. Looking at average $1^{\text {st }}$ grade performance, there was slight improvement, with declines of about $1 \%$ in the percentage of students performing at Below Average from the earlier to the later Kindergarten cohorts. Another way to interpret this is that in the more recent cohorts, slightly fewer $1^{\text {st }}$ grade students ended the year scoring in the lowest performance group. This pattern continues for $2^{\text {nd }}$ graders, who saw minimal or no declines between cohorts.

The pattern is completely different for $3^{\text {rd }}$ graders, who saw increases in the percentage of students performing at Below Average from the earlier to the later Kindergarten cohorts-or put another way, the most recent cohort ended 3 rd grade with higher percentages of students scoring in the lowest performance group than the earlier cohorts in the student groups of interest. This type of analysis highlights the critical importance for continuing to focus on $3^{\text {rd }}$ grade literacy.

The District's work is now guided by the Board of Education's Goals and Guardrails to monitor the progress of schools and students. ${ }^{4}$ The second Board Goal concerns literacy performance of 3rd grade students. Aligned with this goal, SDP monitors Kindergarten through 3rd grade literacy performance at the classroom, school, Learning Network, and District level. and continues to focus on early literacy growth.

## Appendix A

Table A1. Demographic sample of students included in the aimsweb analyses

| Student Characteristic | 2013-14 <br> Kindergarten <br> Cohort | 2014-15 <br> Kindergarten <br> Cohort | 2015-16 <br> Kindergarten <br> Cohort |  |
| :--- | :---: | :---: | :---: | :---: |
| Race/Ethnicity | 1776 | 1690 | 1729 |  |
| Asian | 9633 | 10109 | 9693 |  |
| Black/African American | 4973 | 5083 | 5050 |  |
| Hispanic/Latinx | 1962 | 1983 | 2177 |  |
| Multi-Racial/Other | 3469 | 3020 | 3056 |  |
| White |  |  |  |  |
| Gender |  |  |  |  |
| Female |  |  |  |  |
| Male |  |  |  |  |
| Socio-Economic Status |  |  |  |  |
| Economically Disadv. | 10768 | 10932 | 10367 |  |
| Not Economically Disadv. | 15618 | 10953 | 11338 |  |
| Special Education Status | 6195 | 16218 | 16509 |  |
| Students with IEPs | 1641 | 5667 | 5196 |  |
| Students without IEPs | 20172 | 1557 | 1753 |  |
| English Learner Status |  |  |  |  |
| English Learner | 2499 | 20328 | 19952 |  |
| Not an English Learner | 19314 | 19278 | 18848 |  |

Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

## Appendix B

## How did performance on the aimswebPlus reading assessment change from 2014-15 to 2018-19 for $1^{\text {st }}, 2^{\text {nd }}$, and $3^{\text {rd }}$ grade SDP students? Were there differences in patterns by demographic characteristics?

## How did the performance of the same cohorts of students change over time?

Across all three cohorts and school years, $27 \%-30 \%$ of Asian students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B1). A smaller percentage ( $20 \%-25 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade and $3^{\text {rd }}$ grade.

Figure B1. Race/Ethnicity Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for Asian students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, 49\%-52\% of Black/African American students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B2). A slightly smaller percentage ( $48 \%-50 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3 rd grade with $47 \%-48 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with $52 \%$ of students scoring in the Below Average aimsweb Reading performance group during spring of $3^{\text {rd }}$ grade. The patterns reflected in the Black/African American student population are consistent with the trends of the overall SDP population.

Figure B2. Race/Ethnicity Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for Black/African American students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, 62\%-63\% of Hispanic/Latinx students scored in the Below Average aimsweb Reading performance group during spring of 1st grade (Figure B3). A slightly smaller percentage (56\%-59\%) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3 rd grade with $53 \%-54 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with $57 \%$ of students scoring in the Below Average aimsweb Reading performance group during spring of 3rd grade. The patterns reflected in the Hispanic/Latinx student population follow the trends of the overall SDP population.

Figure B3. Race/Ethnicity Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from 1st grade to 3rd grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for Hispanic/Latinx students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, 45\%-50\% of Multi-Racial/Other students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B4). A slightly smaller percentage ( $40 \%-46 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of $3^{\text {rd }}$ grade with $37 \%-41 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with 50\% of students scoring in the Below Average aimsweb Reading performance group during spring of $3^{\text {rd }}$ grade. The patterns reflected in the Multi-Racial/Other student population mirror the trends of the overall SDP population.

Figure B4. Race/Ethnicity Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to 3rd grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for Multi-Racial/Other students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, $30 \%-33 \%$ of White students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B5). A smaller percentage ( $26 \%-30 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade and $3^{\text {rd }}$ grade.

Figure B5. Race/Ethnicity Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for White students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, $45 \%-48 \%$ of female students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B6). A slightly smaller percentage ( $41 \%-43 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3 rd grade with $39 \%-41 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with $44 \%$ of students scoring in the Below Average aimsweb Reading performance group during spring of 3 rd grade. The patterns reflected in the female student population are consistent with the trends of the overall SDP population.

Figure B6. Gender Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for female students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, 50\%-51\% of male students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B7). A slightly smaller percentage ( $48 \%-49 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3 rd grade with $46 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with $51 \%$ of students scoring in the Below Average aimsweb Reading performance group during spring of 3 rd grade. The patterns reflected in the male student population mirror the trends of the overall SDP population.

Figure B7. Gender Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to 3 rd grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for male students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, $52 \%-55 \%$ of economically disadvantaged students scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B8). A slightly smaller percentage ( $49 \%-51 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3rd grade with $47 \%-49 \%$ of students scoring in the Below Average aimsweb Reading performance. This did not continue for the 2015-16 Kindergarten cohort, with $52 \%$ of students scoring in the Below Average aimsweb Reading performance group during spring of 3rd grade. The patterns reflected in the economically disadvantaged student population follows the trends of the overall SDP population.

Figure B8. Economic Disadvantage Status Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for economically disadvantaged students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For non-economically disadvantaged students, all three cohorts experienced different patterns across the three years of interest (Figure B9). Thirty-eight percent (38\%) of the 2013-14 Kindergarten cohort scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade; this percentage declined to $33 \%$ for spring of $2^{\text {nd }}$ grade and again to $26 \%$ for spring of 3rd grade. The percentage of the 2014-15 Kindergarten cohort who scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade was $38 \%$ as well, and this percentage declined to $27 \%$ for spring of $2^{\text {nd }}$ grade followed by an increase to $29 \%$ for spring of 3 rd grade. In comparison, the percentage of students in the 2015-16 Kindergarten cohort who scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade, $2^{\text {nd }}$ grade, and 3 rd grade ranged from $30 \%$ to $31 \%$, remaining virtually unchanged between the three years.

Figure B9. Economic Disadvantage Status Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 2014-15, and 2015-16 Kindergarten cohorts for non-economically disadvantaged students


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

For English Learners (ELs), all three cohorts experienced different patterns across the three years of interest (Figure B10). The percentage of the 2013-14 Kindergarten cohort who scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade was $64 \%$; this percentage declined to $62 \%$ for spring of $2^{\text {nd }}$ grade but increased to $65 \%$ for spring of 3 rd grade. The percentage of the 2014-15 Kindergarten cohort who scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade was $59 \%$, and this percentage declined to $55 \%$ for spring of $2^{\text {nd }}$ grade and declined again to $53 \%$ for spring of 3 rd grade. In comparison, the percentage of students in the 2015-16 Kindergarten cohort who scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade was $62 \%$; this percentage declined to $56 \%$ for spring of $2^{\text {nd }}$ grade but increased to $57 \%$ for spring of 3 rd grade.

Figure B10. English Learner Status Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 201415, and 2015-16 Kindergarten cohorts for English Learners


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, 46\%-48\% of non-ELs students scored in the Below Average aimsweb Reading performance group during spring of 1st grade (Figure B11). A slightly smaller percentage ( $43 \%-44 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3 rd grade with $41 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with $46 \%$ of students scoring in the Below Average aimsweb Reading performance group during spring of $3^{\text {rd }}$ grade. The patterns reflected in the economically disadvantaged student population follow the trends of the overall SDP population.

Figure B11. English Learner Status Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from $1^{\text {st }}$ grade to $3^{\text {rd }}$ grade for the 2013-14, 201415, and 2015-16 Kindergarten cohorts for non-English Learners

| $12 \%$ | $15 \%$ | $17 \%$ | $14 \%$ | $16 \%$ | $17 \%$ | $14 \%$ | $16 \%$ | $15 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $18 \%$ | $19 \%$ | $19 \%$ | $18 \%$ | $19 \%$ | $19 \%$ | $19 \%$ | $19 \%$ | $17 \%$ |
| $22 \%$ | $22 \%$ | $24 \%$ | $22 \%$ | $22 \%$ | $23 \%$ | $21 \%$ | $22 \%$ | $23 \%$ |
| $48 \%$ | $44 \%$ | $41 \%$ | $47 \%$ | $43 \%$ | $41 \%$ | $46 \%$ | $43 \%$ | $46 \%$ |

Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, $70 \%-75 \%$ of students with an IEP scored in the Below Average aimsweb Reading performance group during spring of $1^{\text {st }}$ grade (Figure B12). A slightly larger percentage ( $72 \%-76 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. This percentage increased into $3^{\text {rd }}$ grade, with $75 \%$ $79 \%$ of students scoring in the Below Average aimsweb Reading performance group in spring of $3{ }^{\text {rd }}$ grade.

Figure B12. Special Education Status Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from 1st grade to $3^{\text {rd }}$ grade for the 2013-14, 201415, and 2015-16 Kindergarten cohorts for students with IEPs


Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.

Across all three cohorts and school years, $46 \%-48 \%$ of students without an IEP scored in the Below Average aimsweb Reading performance group during spring of 1st grade (Figure B13). A slightly smaller percentage ( $42 \%-44 \%$ ) of students scored in the Below Average aimsweb Reading performance group during spring of $2^{\text {nd }}$ grade. For the 2013-14 and 2014-15 Kindergarten cohorts, this percentage shrinks further in the spring of 3 rd grade with $39 \%-40 \%$ of students scoring in the Below Average aimsweb Reading performance group. This did not continue for the 2015-16 Kindergarten cohort, with $44 \%$ of students scoring in the Below Average aimsweb Reading performance group during spring of $3^{\text {rd }}$ grade. The patterns reflected in the students without an IEP population are consistent with the trends of the overall SDP population.

Figure B13. Special Education Status Student Group Analyses: The Percentage of students who performed in the four aimsweb performance groups on the Reading ORF from 1 st grade to $3^{\text {rd }}$ grade for the 2013-14, 201415, and 2015-16 Kindergarten cohorts for students without IEPs

| $11 \%$ | $15 \%$ | $17 \%$ | $14 \%$ | $15 \%$ | $17 \%$ | $14 \%$ | $16 \%$ | $15 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $18 \%$ | $19 \%$ | $19 \%$ | $18 \%$ | $19 \%$ | $20 \%$ | $18 \%$ | $19 \%$ | $17 \%$ |
| $22 \%$ | $23 \%$ | $24 \%$ | $21 \%$ | $23 \%$ | $24 \%$ | $21 \%$ | $22 \%$ | $24 \%$ |
| $48 \%$ | $44 \%$ | $40 \%$ | $47 \%$ | $43 \%$ | $39 \%$ | $46 \%$ | $42 \%$ | $44 \%$ |

Source: Qlik Report Library Academic Screeners, accessed 1/13/2022; Qlik Report Library Enrollment Snapshots (Oct 1), accessed 1/13/2022.


[^0]:    ${ }^{1}$ aimswebPlus is a revision of the original aimsweb which the District used from 2014-15 to 2017-18.
    ${ }^{2}$ During the transition from aimsweb to aimswebPlus, Reading - Curriculum Based Measurement (R-CBM) was renamed Oral Reading Fluency (ORF).
    ${ }^{3}$ See the Four-year analysis of 2015-16 Kindergarteners' aimswebPlus reading and PSSA performance from 2015-16 to 2018-19 report for more information about other aimsweb and aimswebPlus literacy assessments students took prior to 2019-20, https://www.philasd.org/research/2021/10/06/four-year-analysis-of-2015-16-kindergarteners-aimswebplus-reading-and-pssa-performance-from-2015-16-to-2018-19/

