## STATE OF TEXAS ASSESSMENTS OF ACADEMIC READINESS END-OF-YEAR AND BEGINNING-OF-YEAR RESULTS

## END-OF-YEAR AND BEGINNING-OF-YEAR ASSESSMENTS ADMINISTRATION

In spring 2020, after the cancellation of the spring and summer State of Texas Assessments of Academic Readiness (STAAR ${ }^{\circledR}$ ) tests due to the COVID-19 pandemic, the Texas Education Agency (TEA) offered optional end-of-year (EOY) assessments. At the beginning of the 2020-2021 school year, TEA offered optional beginning-of-year (BOY) assessments. These assessments were designed to be an optional tool schools could use to measure student progress and understanding of the statewide curriculum, the Texas Essential Knowledge and Skills (TEKS). Both the EOY and BOY assessments were constructed from previously released STAAR items.

The EOY and BOY assessments covered the same grades/subjects and courses that are provided for STAAR. They included grades $3-8$ mathematics and reading, grades 4 and 7 writing, grades 5 and 8 science, grade 8 social studies, Algebra I, English I, English II, Biology, and U.S. History. Spanish versions of EOY and BOY assessments were also available for grades $3-5$ mathematics and reading, grade 4 writing, and grade 5 science. The EOY and BOY assessments were built to the STAAR blueprint, with the exception of the Writing and English assessments. These assessments did not include a writing prompt and were multiple-choice only. EOY and BOY assessments were not offered for Algebra II and English III. Using the item parameters from previous STAAR administrations, pre-equated scoring tables were created to allow for instant reporting of scale scores and performance levels based on the total raw score for each test.

The EOY assessments were made available from May 11, 2020, to June 12, 2020, while the BOY assessments were available from July 27, 2020, until October 16, 2020. Students were able to access the assessments as a printable PDF or online at home using Pearson's Schoolnet platform. A student could be signed up by their district or by their parent. Students who were registered by their district were done so using their Texas Unique ID. The students registered by the district could be matched to demographic information while students registered by parents could not.

## PARTICIPATION

A total of 63,255 electronic EOY tests were administered. Due to print on demand capabilities of the PDF form, it was not possible to measure the number of paper test administrations in addition to this. Some Spanish language tests had as few as 39 students take the test, while over 4,000 took each of the lower grade Mathematics tests. About $13 \%$ of the tests taken were from parent registrations. A total of 49 districts or charter schools administered at least one electronic EOY assessment.

Over ten times as many BOY tests were administered as EOY tests, totaling 648,609. Once again, due to print on demand capabilities of the PDF form, it was not possible to measure the number of paper test administrations in addition to this. The number of electronic student testers by test title ranged from 232 to over 40,000 students. 334 different districts or charters participated in the electronic version of the BOY assessments, and only $0.01 \%$ of students who took the BOY tests were registered by parents.

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## RESULTS

Scale score means and performance level distributions were calculated for the EOY and BOY tests. Table 1 presents the scale scores and performance level distribution for all students that took the EOY tests and table 2 presents the scale scores and performance level distributions for all students that took the BOY tests.

Since both the EOY and BOY tests were optional tests, the overall test results may not contain a representative sample of students from across the state. In order to enable comparisons of the EOY and BOY tests to previous STAAR tests, the demographic makeup of the sample was examined and compared to the 2019 STAAR population for the given grade and subject. The following variables were compared:

- Sex
- Ethnicity
- Economically Disadvantaged
- Limited English Proficient

Comparing these variables, differences were found between the EOY and BOY samples and the 2019 STAAR population. In order to enable comparisons between the EOY and BOY samples and the 2019 population, the EOY and BOY samples were sampled down using a stratified sampling technique in order to create a representative sample. Since demographic data were needed to create the stratified sample, parent-registered students were excluded from the new sample. EOY Spanish language tests had low participation to start and sampling down was not possible for these assessments.

Table 3 presents the scale score means and standard deviations for the 2019 STAAR administration and the sampled results for the EOY and BOY tests. Table 3 also includes the standard errors of measurement for each test, as well as the differences in the scale score means from 2019 STAAR to the EOY and BOY tests. Although the scores from the EOY sample were more similar to the 2019 results than those of the BOY sample, a relatively small number of students and school districts participated in the EOY assessment. As such, the performance of the EOY sample, even with stratified sampling, is likely not generalizable to statewide student performance, and these differences should be interpreted with caution.

The BOY samples for most tests represent a much larger and more representative sample of students than the EOY tests. Average scores on these tests were all lower when compared to the 2019 STAAR administration, with the most extreme drops coming from grades 4 and 8 mathematics, grades 5 and 8 science, Algebra I, and U.S. History.

Table 4 presents the performance level distributions for the 2019 STAAR administration and the sampled results for the EOY and BOY tests. Table 4 also includes the differences in the pass rates (Approaches or higher) from 2019 STAAR to the EOY and BOY tests. Once again, the EOY results are provided for comparison but should be interpreted with caution, as they represent a very small proportion of students across the state, and $32 \%$ came from one large ISD. The BOY tests did have decreases in the pass rates for all tests, including some very large differences. The largest decrease was observed in grade 5 science, where the pass rate dropped from $74 \%$ in 2019 to $22 \%$ on the BOY test. The only tests without double digit drops in the pass rates were the English I and II tests, which did not include the writing composition, so any comparisons of those tests to the 2019 administration should be made cautiously.

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## DISCUSSION

One main goal of this research was to attempt to quantify the impact on student learning of the COVID-19 pandemic. The extended school closures and long-term remote instruction many students have experienced in the past nine months-in addition to the trauma of the pandemic itself, including the potential loss of financial resources and instability of food and housing-are likely to cause substantial academic impact. The data reported here provide a unique opportunity to compare students' understanding of the curriculum at two different timepoints during the pandemic with that of previous years.

However, it is important to note that the EOY and BOY assessments were optional, non-proctored tests that were administered remotely. Making direct comparisons between the EOY/BOY scores and previous STAAR results is confounded by several factors, including differences in administration mode, test preparation, student and educator motivation, and timing within the school year. In addition, the EOY/BOY Writing and English I and II tests did not include writing composition, meaning that they were unlikely to measure writing in the same way as the STAAR versions of those tests.

Although differences in test administration, motivation, etc. make them less directly comparable with STAAR administrations, these tests were still constructed with the same blueprints (with the exception of writing composition) as the STAAR tests, using items with known measurement properties for students in a typical year. Examining changes from 2019 to the 2020 BOY tests is intended to provide a starting point to try to quantify the impact on student learning of COVID-19.

## Estimating Potential Learning Loss

Because they were administered in the fall as opposed to the spring, the BOY test results are likely to show the impact of summer learning loss (e.g., Cooper et al., 1996). In other words, student performance may have decreased somewhat over the summer even without disruptions due to the pandemic.

To estimate the impact of a summer learning loss, students were identified who took both the EOY test and the BOY test for the same grade and subject. These are students who took, for example, a grade 3 EOY test in the spring as third graders, and then the grade 3 BOY test in the fall as beginning fourth graders. Changes in test performance from EOY to BOY cannot be ascribed to summer loss alone, of course. These students were also potentially affected by the factors described above, and the EOY samples are likely not representative of the statewide population. However, they are incorporated here as the best available source of estimating the size of a summer loss effect.

In order to estimate the net effect on student learning, two separate difference scores were calculated: one for the total change in performance from 2019 to BOY administration, and another for the change in performance from EOY to BOY for students who took both tests. The methods for calculating these changes were similar. For each effect, standardized mean scale score differences were calculated across the two time points for each grade and subject. Next, the summer loss results were subtracted from the 2019-to-BOY results. In order to put these changes on a more useful metric, the 'summer learning loss' mean differences

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were converted to 'months of learning loss' by dividing them by 2.5 (the typical length in months of summer break). Finally, the estimated pandemic effects (i.e., total minus summer) were converted to months as well by dividing by the respective 'months of learning loss' unit within each grade and subject.

Due to variability of these effect across grades and subjects—and especially due to the potential to overinterpret the summer loss results, which were based on small samples-the net effects were averaged across grades and subjects to provide an overall rough estimate of the learning loss due to the pandemic. Additionally, because several of the EOY-to-BOY samples (see Table 5) were quite small, tests with fewer than 250 students were omitted from the final calculation. Based on these admittedly limited results, the effect on student learning from March 2020 through early fall 2020 appears to represent about $\mathbf{3 . 2}$ months of instructional loss, in addition to the typical $\mathbf{2 . 5}$ months of summer loss.

Obviously, there are many limitations of this study. As previously mentioned, neither the EOY nor the BOY tests are perfectly comparable to the STAAR tests. These tests were administered remotely and in a nonproctored environment, and they were also optional, meaning that the students who took the tests were not a random sample of students across the state. One particularly influential calculation-that of the "summer learning loss" effect-is based on only a few hundred students per test. However, these effects were within the range of summer learning loss reported in previous studies (e.g., Paechter et al., 2015; Cooper et al., 1996).

## References

Cooper, H., Nye, B., Charlton, K., Lindsay, J., and Greathouse, S. (1996). The effects of summer vacation on achievement test scores: A narrative and meta-analytic review. Review of Educational Research, 66(3), 227-268. doi: 10.3102/00346543066003227

Paechter, M., Luttenberger, S., Macher, D., Berding, F., Papousek, I., Weiss, E.M., and Fink, A. (2015). The effects of nine-week summer vacation: Losses in mathematics and gains in reading. EURASIA Journal of Math, Science and Technology Education, 11(6), 1339-1413. doi: 10.12973/eurasia.2015.1397a

Table 1. EOY Scale Score Means and Standard Deviations for All Students

| EOY Grade and Subject | N | Scale Score Mean | Scale Score SD | Standard Error of Measurement | Did Not Meet | \% At or Above Approaches | \% At or <br> Above <br> Meets | \% At or <br> Above <br> Masters |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade 3 Mathematics | 4,294 | 1508 | 166 | 53 | 21\% | 79\% | 62\% | 30\% |
| Grade 4 Mathematics | 4,021 | 1571 | 167 | 51 | 23\% | 77\% | 46\% | 27\% |
| Grade 5 Mathematics | 4,092 | 1649 | 175 | 52 | 15\% | 85\% | 56\% | 36\% |
| Grade 6 Mathematics | 3,641 | 1646 | 161 | 47 | 21\% | 79\% | 51\% | 22\% |
| Grade 7 Mathematics | 3,067 | 1679 | 175 | 48 | 23\% | 77\% | 52\% | 25\% |
| Grade 8 Mathematics | 2,717 | 1677 | 179 | 46 | 27\% | 73\% | 47\% | 16\% |
| Grade 3 Reading | 4,243 | 1485 | 179 | 53 | 17\% | 83\% | 61\% | 37\% |
| Grade 4 Reading | 3,923 | 1525 | 169 | 51 | 25\% | 75\% | 48\% | 27\% |
| Grade 5 Reading | 3,981 | 1568 | 184 | 51 | 24\% | 76\% | 50\% | 28\% |
| Grade 6 Reading | 3,580 | 1577 | 206 | 51 | 33\% | 67\% | 41\% | 24\% |
| Grade 7 Reading | 3,111 | 1659 | 218 | 50 | 27\% | 73\% | 50\% | 31\% |
| Grade 8 Reading | 2,723 | 1731 | 229 | 49 | 21\% | 79\% | 58\% | 44\% |
| Grade 4 Writing | 3,188 | 3961 | 798 | 290 | 26\% | 74\% | 49\% | 23\% |
| Grade 7 Writing | 2,515 | 4050 | 913 | 254 | 24\% | 76\% | 57\% | 26\% |
| Grade 5 Science | 3,427 | 3810 | 632 | 203 | 28\% | 72\% | 41\% | 18\% |
| Grade 8 Science | 2,426 | 4258 | 1020 | 239 | 19\% | 81\% | 63\% | 44\% |
| Grade 8 Social Studies | 2,285 | 4133 | 729 | 184 | 19\% | 81\% | 60\% | 46\% |
| Algebra I | 1,517 | 4022 | 752 | 164 | 22\% | 78\% | 57\% | 34\% |
| English I | 1,180 | 4008 | 822 | 170 | 32\% | 68\% | 57\% | 21\% |
| English II | 883 | 4017 | 913 | 187 | 31\% | 69\% | 57\% | 14\% |
| Biology | 1,066 | 4255 | 810 | 175 | 15\% | 85\% | 69\% | 35\% |
| US History | 918 | 4233 | 874 | 176 | 14\% | 86\% | 70\% | 42\% |
| Grade 3 Spanish Mathematics | 70 | 1404 | 263 | 55 | 31\% | 69\% | 47\% | 24\% |
| Grade 4 Spanish Mathematics | 39 | 1496 | 202 | 55 | 38\% | 62\% | 28\% | 15\% |
| Grade 5 Spanish Mathematics | 50 | 1611 | 240 | 54 | 28\% | 72\% | 60\% | 36\% |
| Grade 3 Spanish Reading | 79 | 1490 | 266 | 60 | 20\% | 80\% | 62\% | 52\% |
| Grade 4 Spanish Reading | 51 | 1512 | 225 | 65 | 29\% | 71\% | 47\% | 29\% |
| Grade 5 Spanish Reading | 73 | 1530 | 309 | 63 | 30\% | 70\% | 60\% | 30\% |
| Grade 4 Spanish Writing | 40 | 3871 | 1,009 | 349 | 38\% | 63\% | 43\% | 28\% |
| Grade 5 Spanish Science | 55 | 3529 | 743 | 188 | 49\% | 51\% | 31\% | 15\% |

[^0]Table 2. BOY Scale Score Means and Standard Deviations for All Students

| BOY Grade and Subject | N | Scale Score Mean | Scale Score SD | Standard Error of Measurement | Did Not Meet | \% at or <br> Above <br> Approaches | \% at or <br> Above <br> Meets | \% at or <br> Above <br> Masters |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade 3 Mathematics | 41,954 | 1369 | 126 | 46 | 50\% | 50\% | 17\% | 6\% |
| Grade 4 Mathematics | 43,198 | 1446 | 122 | 45 | 61\% | 40\% | 15\% | 6\% |
| Grade 5 Mathematics | 44,789 | 1534 | 122 | 44 | 40\% | 60\% | 23\% | 7\% |
| Grade 6 Mathematics | 41,305 | 1557 | 110 | 40 | 47\% | 53\% | 20\% | 5\% |
| Grade 7 Mathematics | 39,267 | 1592 | 110 | 40 | 46\% | 54\% | 21\% | 4\% |
| Grade 8 Mathematics | 27,052 | 1612 | 132 | 41 | 49\% | 50\% | 23\% | 5\% |
| Grade 3 Reading | 39,892 | 1385 | 144 | 47 | 39\% | 60\% | 29\% | 12\% |
| Grade 4 Reading | 41,003 | 1449 | 144 | 46 | 46\% | 54\% | 27\% | 12\% |
| Grade 5 Reading | 46,320 | 1495 | 142 | 44 | 44\% | 57\% | 29\% | 14\% |
| Grade 6 Reading | 43,820 | 1525 | 140 | 44 | 50\% | 50\% | 23\% | 10\% |
| Grade 7 Reading | 44,567 | 1592 | 142 | 43 | 43\% | 57\% | 31\% | 13\% |
| Grade 8 Reading | 32,888 | 1632 | 161 | 43 | 41\% | 59\% | 34\% | 19\% |
| Grade 4 Writing | 15,940 | 3309 | 576 | 263 | 65\% | 35\% | 13\% | 2\% |
| Grade 7 Writing | 16,373 | 3569 | 600 | 233 | 50\% | 50\% | 24\% | 7\% |
| Grade 5 Science | 14,815 | 3414 | 445 | 178 | 62\% | 37\% | 12\% | 3\% |
| Grade 8 Science | 13,423 | 3588 | 676 | 211 | 53\% | 46\% | 23\% | 12\% |
| Grade 8 Social Studies | 9,310 | 3537 | 574 | 175 | 61\% | 38\% | 19\% | 14\% |
| Algebra I | 14,143 | 3660 | 431 | 141 | 44\% | 57\% | 19\% | 8\% |
| English I | 35,009 | 3905 | 614 | 157 | 40\% | 60\% | 47\% | 10\% |
| English II | 16,384 | 3895 | 602 | 165 | 42\% | 58\% | 45\% | 6\% |
| Biology | 10,324 | 3931 | 595 | 166 | 29\% | 71\% | 39\% | 15\% |
| US History | 7,122 | 3839 | 531 | 139 | 33\% | 66\% | 38\% | 14\% |
| Grade 3 Spanish Mathematics | 1,354 | 1344 | 120 | 45 | 58\% | 42\% | 14\% | 4\% |
| Grade 4 Spanish Mathematics | 978 | 1408 | 114 | 44 | 73\% | 27\% | 9\% | 3\% |
| Grade 5 Spanish Mathematics | 232 | 1449 | 103 | 41 | 73\% | 28\% | 9\% | 2\% |
| Grade 3 Spanish Reading | 3,225 | 1339 | 158 | 55 | 47\% | 53\% | 26\% | 15\% |
| Grade 4 Spanish Reading | 2,606 | 1376 | 143 | 52 | 60\% | 40\% | 16\% | 5\% |
| Grade 5 Spanish Reading | 330 | 1435 | 146 | 52 | 62\% | 38\% | 16\% | 6\% |
| Grade 4 Spanish Writing | 714 | 3306 | 639 | 274 | 65\% | 35\% | 18\% | 6\% |
| Grade 5 Spanish Science | 272 | 3242 | 341 | 173 | 80\% | 20\% | 3\% | 1\% |

[^1]Table 3. Scale Score Means and Standard Deviations for 2019 STAAR and EOY/BOY Matched Samples

| Grade and Subject | Spring 2019 STAAR |  |  |  | EOY 2020 Matched Sample |  |  |  | ```EOY Mean SS Diff from 2019``` | BOY 2020 Matched Sample |  |  |  | $\begin{gathered} \text { BOY Mean } \\ \text { SS } \\ \text { Diff from } \\ 2019 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N | SS Mean | SS SD | SE of Meas. | N | SS <br> Mean | $\begin{aligned} & \text { SS } \\ & \text { SD } \end{aligned}$ | SE of Meas. |  | N | SS <br> Mean | $\begin{aligned} & \text { SS } \\ & \text { SD } \end{aligned}$ | SE of Meas. |  |
| Grade 3 Mathematics | 374,259 | 1478 | 155 | 51 | 1,959 | 1503 | 169 | 53 | 25 | 23,451 | 1384 | 127 | 46 | -94 |
| Grade 4 Mathematics | 394,964 | 1577 | 160 | 51 | 1,883 | 1565 | 166 | 51 | -12 | 23,882 | 1465 | 125 | 45 | -112 |
| Grade 5 Mathematics | 404,089 | 1651 | 163 | 49 | 2,227 | 1640 | 177 | 52 | -11 | 24,992 | 1553 | 123 | 44 | -98 |
| Grade 6 Mathematics | 401,216 | 1647 | 145 | 43 | 1,855 | 1636 | 150 | 46 | -11 | 23,493 | 1573 | 114 | 40 | -74 |
| Grade 7 Mathematics | 352,968 | 1660 | 140 | 44 | 1,463 | 1667 | 173 | 47 | 7 | 21,126 | 1599 | 112 | 40 | -61 |
| Grade 8 Mathematics | 337,761 | 1712 | 143 | 45 | 1,131 | 1668 | 173 | 45 | -44 | 11,440 | 1600 | 115 | 40 | -112 |
| Grade 3 Reading | 356,913 | 1449 | 151 | 50 | 1,821 | 1488 | 180 | 53 | 40 | 21,957 | 1403 | 145 | 47 | -46 |
| Grade 4 Reading | 380,162 | 1521 | 146 | 48 | 1,791 | 1533 | 163 | 50 | 12 | 22,454 | 1468 | 147 | 46 | -53 |
| Grade 5 Reading | 394,750 | 1579 | 145 | 48 | 2,023 | 1568 | 182 | 50 | -11 | 25,787 | 1516 | 145 | 45 | -63 |
| Grade 6 Reading | 410,024 | 1574 | 139 | 44 | 1,827 | 1576 | 208 | 51 | 2 | 25,220 | 1540 | 143 | 44 | -34 |
| Grade 7 Reading | 399,426 | 1654 | 145 | 43 | 1,431 | 1650 | 217 | 50 | -4 | 25,119 | 1605 | 144 | 43 | -49 |
| Grade 8 Reading | 392,556 | 1690 | 140 | 42 | 1,362 | 1723 | 220 | 49 | 33 | 16,665 | 1644 | 163 | 44 | -46 |
| Grade 4 Writing | 379,120 | 3719 | 616 | 239 | 1,175 | 4003 | 788 | 286 | 284 | 4,134 | 3505 | 596 | 263 | -214 |
| Grade 7 Writing | 399,570 | 3866 | 700 | 243 | 971 | 4028 | 877 | 253 | 162 | 4,284 | 3643 | 622 | 235 | -223 |
| Grade 5 Science | 402,556 | 3913 | 575 | 199 | 1,467 | 3773 | 622 | 200 | -140 | 3,389 | 3258 | 365 | 175 | -655 |
| Grade 8 Science | 393,904 | 3999 | 617 | 205 | 1,091 | 4200 | 1010 | 239 | 201 | 2,157 | 3574 | 577 | 197 | -425 |
| Grade 8 Social Studies | 395,567 | 3780 | 524 | 174 | 1,007 | 4080 | 749 | 187 | 300 | 1,489 | 3532 | 515 | 170 | -248 |
| Algebra I | 416,354 | 4190 | 639 | 157 | 742 | 3958 | 704 | 164 | -232 | 9,267 | 3668 | 426 | 140 | -522 |
| English I | 467,850 | 3978 | 562 | 159 | 560 | 3994 | 776 | 171 | 16 | 24,709 | 3905 | 614 | 156 | -73 |
| English II | 445,466 | 4017 | 546 | 164 | 471 | 3986 | 949 | 188 | -31 | 11,192 | 3905 | 597 | 164 | -112 |
| Biology | 409,371 | 4199 | 569 | 161 | 466 | 4286 | 771 | 175 | 87 | 6,185 | 3919 | 561 | 162 | -280 |
| US History | 360,061 | 4352 | 547 | 155 | 446 | 4236 | 878 | 181 | -116 | 4,376 | 3838 | 524 | 139 | -514 |
| Grade 3 Spanish | 15,774 | 1417 | 137 | 49 |  |  |  |  |  | 824 | 1354 | 117 | 45 | -63 |
| Grade 4 Spanish | 10,358 | 1497 | 139 | 46 |  |  |  |  |  | 583 | 1414 | 109 | 44 | -83 |
| Grade 5 Spanish | 6,053 | 1537 | 150 | 45 |  |  |  |  |  | 37 | 1482 | 111 | 42 | -55 |
| Grade 3 Spanish Reading | 33,060 | 1405 | 161 | 56 |  |  |  |  |  | 2,456 | 1349 | 158 | 55 | -56 |
| Grade 4 Spanish Reading | 25,566 | 1458 | 153 | 55 |  |  |  |  |  | 2,038 | 1383 | 142 | 52 | -75 |
| Grade 5 Spanish Reading | 15,979 | 1582 | 147 | 53 |  |  |  |  |  | 98 | 1467 | 141 | 49 | -115 |

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|  | Spring 2019 STAAR |  |  |  | EOY 2020 Matched Sample |  |  |  | $\begin{gathered} \text { EOY Mean } \\ \text { SS } \\ \text { Diff from } \\ 2019 \end{gathered}$ | BOY 2020 Matched Sample |  |  |  | $\begin{gathered} \text { BOY Mean } \\ \text { SS } \\ \text { Diff from } \\ 2019 \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Grade and Subject | N | SS Mean | SS SD | SE of Meas. | N | SS <br> Mean | $\begin{aligned} & \text { SS } \\ & \text { SD } \end{aligned}$ | SE of Meas. |  | N | SS <br> Mean | $\begin{aligned} & \text { SS } \\ & \text { SD } \end{aligned}$ | SE of Meas. |  |
| Grade 4 Spanish Writing | 26,221 | 3820 | 672 | 252 |  |  |  |  |  | 271 | 3434 | 648 | 269 | -386 |
| Grade 5 Spanish Science | 8,349 | 3498 | 486 | 182 |  |  |  |  |  | 124 | 3325 | 301 | 170 | -173 |

Table 4. Performance Levels for 2019 STAAR and EOY/BOY Matched Samples

| Grade and Subject | Spring 2019 STAAR |  |  |  |  | EOY 2020 Matched Sample |  |  |  |  | EOY Passing Rate Diff. from 2019 | BOY 2020 Matched Sample |  |  |  |  | BOY Passing Rate Diff. from 2019 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | \% At or Below |  |  |  | N | \% At or Below |  |  |  |  | N | \% At or Below |  |  |  |  |
|  | N | Did Not Meet | Approaches | Meets | Masters |  | Did Not Meet | Approaches | Meets | Masters |  |  | Did Not <br> Meet | Approaches | Meets | Masters |  |
| Grade 3 Mathematics | 374,259 | 22\% | 52\% | 76\% | 100\% | 1,959 | 22\% | 40\% | 71\% | 100\% | 0\% | 23,451 | 44\% | 79\% | 92\% | 100\% | -23\% |
| Grade 4 Mathematics | 394,964 | 26\% | 54\% | 72\% | 100\% | 1,883 | 25\% | 55\% | 75\% | 100\% | 0\% | 23,882 | 54\% | 82\% | 93\% | 100\% | -27\% |
| Grade 5 Mathematics | 404,089 | 17\% | 44\% | 64\% | 100\% | 2,227 | 16\% | 46\% | 66\% | 100\% | 1\% | 24,992 | 33\% | 72\% | 91\% | 100\% | -16\% |
| Grade 6 Mathematics | 401,216 | 21\% | 55\% | 80\% | 100\% | 1,855 | 22\% | 53\% | 81\% | 100\% | -2\% | 23,493 | 41\% | 76\% | 94\% | 100\% | -20\% |
| Grade 7 Mathematics | 352,968 | 27\% | 59\% | 84\% | 100\% | 1,463 | 25\% | 50\% | 77\% | 100\% | 1\% | 21,126 | 43\% | 76\% | 94\% | 100\% | -17\% |
| Grade 8 Mathematics | 337,761 | 19\% | 45\% | 84\% | 100\% | 1,131 | 30\% | 56\% | 85\% | 100\% | -11\% | 11,440 | 51\% | 81\% | 97\% | 100\% | -32\% |
| Grade 3 Reading | 356,913 | 24\% | 56\% | 72\% | 100\% | 1,821 | 17\% | 38\% | 61\% | 100\% | 8\% | 21,957 | 34\% | 66\% | 85\% | 100\% | -10\% |
| Grade 4 Reading | 380,162 | 26\% | 57\% | 78\% | 100\% | 1,791 | 24\% | 51\% | 72\% | 100\% | 3\% | 22,454 | 41\% | 69\% | 86\% | 100\% | -14\% |
| Grade 5 Reading | 394,750 | 23\% | 49\% | 71\% | 100\% | 2,023 | 25\% | 50\% | 72\% | 100\% | -2\% | 25,787 | 38\% | 66\% | 83\% | 100\% | -15\% |
| Grade 6 Reading | 410,024 | 34\% | 65\% | 83\% | 100\% | 1,827 | 34\% | 59\% | 76\% | 100\% | 0\% | 25,220 | 45\% | 73\% | 87\% | 100\% | -11\% |
| Grade 7 Reading | 399,426 | 26\% | 53\% | 72\% | 100\% | 1,431 | 29\% | 52\% | 71\% | 100\% | -2\% | 25,119 | 40\% | 66\% | 85\% | 100\% | -14\% |
| Grade 8 Reading | 392,556 | 23\% | 47\% | 73\% | 100\% | 1,362 | 20\% | 43\% | 58\% | 100\% | 3\% | 16,665 | 38\% | 63\% | 79\% | 100\% | -15\% |
| Grade 4 Writing | 379,120 | 35\% | 67\% | 90\% | 100\% | 1,175 | 24\% | 48\% | 76\% | 100\% | 12\% | 4,134 | 50\% | 77\% | 96\% | 100\% | -15\% |
| Grade 7 Writing | 399,570 | 31\% | 60\% | 83\% | 100\% | 971 | 23\% | 43\% | 76\% | 100\% | 7\% | 4,284 | 46\% | 72\% | 90\% | 100\% | -15\% |
| Grade 5 Science | 402,556 | 26\% | 52\% | 77\% | 100\% | 1,467 | 30\% | 62\% | 84\% | 100\% | -4\% | 3,389 | 78\% | 95\% | 99\% | 100\% | -52\% |
| Grade 8 Science | 393,904 | 21\% | 51\% | 76\% | 100\% | 1,091 | 20\% | 39\% | 60\% | 100\% | 1\% | 2,157 | 49\% | 77\% | 91\% | 100\% | -28\% |
| Grade 8 Social Studies | 395,567 | 33\% | 65\% | 80\% | 100\% | 1,007 | 19\% | 43\% | 58\% | 100\% | 14\% | 1,489 | 58\% | 81\% | 88\% | 100\% | -26\% |
| Algebra I | 416,354 | 16\% | 38\% | 61\% | 100\% | 742 | 23\% | 46\% | 70\% | 100\% | -7\% | 9,267 | 42\% | 80\% | 92\% | 100\% | -26\% |
| English I | 467,850 | 37\% | 51\% | 88\% | 100\% | 560 | 33\% | 45\% | 82\% | 100\% | 3\% | 24,709 | 40\% | 53\% | 90\% | 100\% | -3\% |
| English II | 445,466 | 33\% | 49\% | 92\% | 100\% | 471 | 32\% | 45\% | 85\% | 100\% | 1\% | 11,192 | 41\% | 53\% | 93\% | 100\% | -9\% |
| Biology | 409,371 | 12\% | 37\% | 74\% | 100\% | 466 | 14\% | 29\% | 65\% | 100\% | -2\% | 6,185 | 28\% | 61\% | 86\% | 100\% | -16\% |
| US History | 360,061 | 7\% | 25\% | 53\% | 100\% | 446 | 14\% | 29\% | 60\% | 100\% | -6\% | 4,376 | 32\% | 61\% | 86\% | 100\% | -25\% |
| Grade 3 Spanish Math | 15,774 | 34\% | 69\% | 88\% | 100\% |  |  |  |  |  |  | 824 | 55\% | 86\% | 95\% | 100\% | -22\% |
| Grade 4 Spanish Math | 10,358 | 46\% | 74\% | 88\% | 100\% |  |  |  |  |  |  | 583 | 72\% | 92\% | 98\% | 100\% | -25\% |
| Grade 5 Spanish Math | 6,053 | 43\% | 72\% | 87\% | 100\% |  |  |  |  |  |  | 37 | 57\% | 89\% | 97\% | 100\% | -14\% |
| Grade 3 Sp. Reading | 33,060 | 31\% | 61\% | 79\% | 100\% |  |  |  |  |  |  | 2,456 | 44\% | 72\% | 83\% | 100\% | -14\% |
| Grade 4 Sp. Reading | 25,566 | 41\% | 71\% | 88\% | 100\% |  |  |  |  |  |  | 2,038 | 59\% | 83\% | 95\% | 100\% | -17\% |
| Grade 5 Sp. Reading | 15,979 | 20\% | 47\% | 79\% | 100\% |  |  |  |  |  |  | 98 | 51\% | 78\% | 91\% | 100\% | -31\% |
| Grade 4 Sp. Writing | 26,221 | 33\% | 61\% | 85\% | 100\% |  |  |  |  |  |  | 271 | 57\% | 74\% | 92\% | 100\% | -24\% |
| Grade 5 Sp. Science | 8,349 | 56\% | 82\% | 94\% | 100\% |  |  |  |  |  |  | 124 | 77\% | 96\% | 99\% | 100\% | -21\% |

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Table 5. Sample Sizes for Students Taking Both EOY and BOY Tests

| Grade and Subject | $\mathbf{N}$ |
| :--- | ---: |
| Grade 3 Mathematics | 613 |
| Grade 5 Mathematics | 551 |
| Grade 6 Mathematics | 487 |
| Grade 7 Mathematics | 412 |
| Grade 8 Mathematics | 157 |
| Grade 3 Reading | 585 |
| Grade 4 Reading | 513 |
| Grade 5 Reading | 495 |
| Grade 6 Reading | 240 |
| Grade 7 Reading | 453 |
| Grade 8 Reading | 242 |
| Grade 4 Writing | 334 |
| Grade 7 Writing | 313 |
| Grade 5 Science | 375 |
| Grade 8 Science | 199 |
| Grade 8 Social Studies | 196 |
| Algebra I | 212 |
| English I | 162 |
| English II | 136 |
| Biology | 2 |
| US History | 3 |

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