## June <br> 2023

## ISASP IOWA STATEWIDE ASSESSMENT of STUDENT PROGRESS

## Student Performance Changes 2022 to 2023

Prepared By<br>Iowa Testing Programs

## ISASP Student Performance Changes

The lowa Statewide Assessment of Student Progress (ISASP) measures student achievement and understanding of the lowa Core Standards in English Language Arts (ELA), Mathematics and Science. Indicators of student proficiency and growth from grade-to-grade are provided. ISASP assesses students in English Language Arts and Mathematics for students in grades 3-11. The Science assessment is administered to students in grades 5,8 , and 10. The assessments, offered in both paper-and pencil and computer-based formats during the last quarter of the academic year, include multiple-choice and technology-enhanced items, constructed response items, and open-ended essay questions.

Understanding how students change and grow over time is extremely important as teachers and schools design education programs tied to standards in English Language Arts, Mathematics, and Science. Student achievement and growth can be characterized in a variety of ways, including proficiency, growth scores, and status relative to a goal such as college readiness. Three different types of metrics are available to help interpret ISASP results. A proficiency-based reference provides students and educators with descriptions and indicators of levels of proficiency as determined by the state of lowa. Proficiency-based scores are criterionreferenced and reflect the level of achievement compared to the lowa Core standards. A normative-based reference is provided through the state of lowa percentile ranks that are available after each administration. A growth reference provides a metric for examining the change between two or more administrations of an assessment. ISASP was first administered in the spring of 2019, the second administration of ISASP was spring 2021 (after COVID cancelled the assessment in 2020) and the third administration was spring 2022. This document summarizes the changes in student performance for all test takers as well as for a matched set of test takers that completed both the 2022 and 2023 administrations. This document is designed to complement available information on proficiency rates and state percentile ranks.

## ISASP Scale

The primary functions of the ISASP Scale Score are (1) to provide a consistent metric for translating ISASP scores into the standards-based achievement levels adopted by the lowa State Board of Education of Not-Yet-Proficient, Proficient, and Advanced; (2) to establish a common metric for scores on ISASP forms across years that can be responsive to changes in assessment design such as adaptive testing; (3) to support future efforts related to metrics for student growth; and (4) to determine how far students are from the various proficiency levels without depending upon the changing raw scores across forms.

Table 1 provides the means and standard deviations of the ISASP scale score distributions used to develop the raw score to scale score conversion tables for the ISASP program. These can be used as reference points for future administrations. The steadily increasing means from grade-to-grade establish the expected change for grade cohorts. The ISASP scale scores can be used as a direct measure of year-to-year change on a common metric in a change-score growth
model. The distributions of ISASP scores also exhibit the property of steadily increasing variability across grades.

Table 1. Means and Standard Deviations of the ISASP Scale Score Distributions for 2019

| Grade |  | Mean Scale Score |
| :---: | :---: | :---: |
| 03 | 409 | Standard Deviation |
| 04 | 432 | 28.7 |
| 05 | 454 | 34.4 |
| 06 | 476 | 41.3 |
| 07 | 500 | 45.5 |
| 08 | 521 | 50.0 |
| 09 | 544 | 55.0 |
| 10 | 568 | 60.5 |
| 11 | 593 | 60.5 |
|  |  | 60.5 |

## Average State Results for All Test Takers

The performance of all public and accredited private schools in the State of lowa in 2023 is described in Table 2 using the average scale score metric.

Table 2. Average Scale Scores for 2023 and 2022 by Subject and Grade

| $\begin{array}{r} \text { Subject } \\ \text { ELA } \end{array}$ |  | 2023 |  |  | 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Grade | N-Count | Mean | SD | N-Count | Mean | SD |
|  | 03 | 38005 | 411.0 | 27.6 | 37463 | 410.3 | 28.3 |
|  | 04 | 37734 | 435.8 | 34.1 | 37043 | 437.3 | 34.3 |
|  | 05 | 37420 | 457.0 | 39.7 | 37001 | 455.6 | 38.3 |
|  | 06 | 37182 | 483.1 | 43.7 | 38093 | 477.6 | 42.3 |
|  | 07 | 38248 | 508.5 | 49.5 | 38771 | 505.4 | 47.9 |
|  | 08 | 38976 | 529.4 | 50.7 | 39924 | 528.3 | 50.0 |
|  | 09 | 40524 | 536.7 | 55.7 | 40264 | 539.8 | 56.3 |
|  | 10 | 39660 | 569.4 | 61.3 | 38245 | 567.4 | 57.4 |
|  | 11 | 37212 | 591.2 | 59.6 | 36094 | 592.9 | 59.1 |
| Math | 03 | 37994 | 412.0 | 29.9 | 37492 | 411.9 | 30.9 |
|  | 04 | 37727 | 434.9 | 37.3 | 37087 | 431.0 | 36.0 |
|  | 05 | 37403 | 454.8 | 41.0 | 37017 | 450.7 | 42.3 |
|  | 06 | 37169 | 477.1 | 46.6 | 38129 | 474.9 | 48.6 |
|  | 07 | 38230 | 499.4 | 52.3 | 38808 | 494.4 | 50.4 |
|  | 08 | 38951 | 528.8 | 57.5 | 39995 | 519.2 | 53.9 |
|  | 09 | 40498 | 539.2 | 64.1 | 40391 | 533.9 | 60.0 |
|  | 10 | 39626 | 566.6 | 59.1 | 38454 | 560.4 | 59.7 |
|  | 11 | 37182 | 597.7 | 66.4 | 36301 | 587.0 | 63.6 |
| Science | 05 | 37325 | 462.4 | 37.5 | 36933 | 460.2 | 38.0 |
|  | 08 | 38843 | 528.0 | 52.0 | 39879 | 528.7 | 52.1 |
|  | 10 | 39566 | 568.0 | 63.1 | 38356 | 570.4 | 62.5 |

## State Results for Matched Cohorts

Tables 3 to 7 provide results for matched cohorts of students. Matching records for 2022 and 2023 ISASP was done so that only students that completed tests in both years were included. All students in the state datasets had verified state identification numbers. Students were removed from the matched datasets if they did not complete the applicable test for both years (i.e., removed from the ELA dataset if they did not have an ELA score for both 2022 and 2023). This process resulted in the final matched datasets with student records for Grades 4-11 in 2023 matched to their records for Grades 3-10 in 2022 for ELA and Mathematics. Science is only administered in Grades 5, 8, and 10, so there no students in 2022 that also completed Science in 2023.
*Note: The 2023 matched cohort samples will be larger than those in the 2022 report because the 2022 report excluded students who tested remotely in 2021.

Table 3. Average Scale Scores for Matched Cohort by Race/Ethnicity by Grade for ELA

|  |  | 2023 |  |  | 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Race | N-Count | Grade | Mean | SD | Grade | Mean | SD |
| Asian | 899 | 04 | 444.0 | 35.8 | 03 | 415.0 | 29.3 |
| African American | 2210 | 04 | 415.1 | 32.2 | 03 | 392.5 | 25.5 |
| Hispanic | 4305 | 04 | 423.4 | 32.1 | 03 | 398.4 | 25.8 |
| Two or more races | 1850 | 04 | 431.2 | 34.3 | 03 | 405.8 | 28.1 |
| American Indian | 113 | 04 | 422.8 | 29.7 | 03 | 396.2 | 24.3 |
| N. Hawaiian/Pac. Islander | 176 | 04 | 408.4 | 29.4 | 03 | 386.8 | 21.4 |
| White | 26689 | 04 | 440.7 | 32.7 | 03 | 414.3 | 27.6 |
| Asian | 947 | 05 | 466.9 | 41.3 | 04 | 442.8 | 35.1 |
| African American | 2209 | 05 | 430.6 | 34.7 | 04 | 413.7 | 31.6 |
| Hispanic | 4114 | 05 | 441.0 | 36.9 | 04 | 422.4 | 32.9 |
| Two or more races | 1807 | 05 | 451.7 | 40.0 | 04 | 432.8 | 34.1 |
| American Indian | 140 | 05 | 439.5 | 35.2 | 04 | 421.8 | 32.4 |
| N. Hawaiian/Pac. Islander | 177 | 05 | 428.0 | 33.8 | 04 | 410.0 | 30.8 |
| White | 26450 | 05 | 463.0 | 38.2 | 04 | 442.4 | 32.8 |
| Asian | 898 | 06 | 494.5 | 45.9 | 05 | 464.0 | 40.2 |
| African American | 2254 | 06 | 455.0 | 40.2 | 05 | 429.6 | 34.1 |
| Hispanic | 4247 | 06 | 465.7 | 40.3 | 05 | 439.8 | 35.7 |
| Two or more races | 1580 | 06 | 477.9 | 43.5 | 05 | 451.2 | 37.5 |
| American Indian | 119 | 06 | 457.8 | 40.5 | 05 | 433.0 | 34.4 |
| N. Hawaiian/Pac. Islander | 179 | 06 | 452.3 | 38.9 | 05 | 427.1 | 33.3 |
| White | 26469 | 06 | 489.7 | 41.9 | 05 | 461.1 | 37.0 |
| Asian | 867 | 07 | 524.6 | 53.5 | 06 | 487.6 | 45.9 |
| African American | 2245 | 07 | 475.8 | 45.2 | 06 | 449.4 | 37.5 |
| Hispanic | 4351 | 07 | 488.8 | 46.0 | 06 | 459.8 | 39.4 |
| Two or more races | 1705 | 07 | 501.6 | 50.8 | 06 | 471.8 | 42.6 |
| American Indian | 127 | 07 | 488.3 | 43.4 | 06 | 459.6 | 38.8 |
| N. Hawaiian/Pac. Islander | 165 | 07 | 467.1 | 38.5 | 06 | 442.6 | 33.6 |
| White | 27239 | 07 | 515.9 | 47.2 | 06 | 483.9 | 40.7 |
| Asian | 851 | 08 | 544.9 | 51.3 | 07 | 521.4 | 51.6 |
| African American | 2280 | 08 | 493.1 | 47.3 | 07 | 471.2 | 43.3 |
| Hispanic | 4529 | 08 | 511.2 | 47.9 | 07 | 487.4 | 45.4 |
| Two or more races | 1658 | 08 | 522.4 | 51.9 | 07 | 500.1 | 48.0 |
| American Indian | 115 | 08 | 505.3 | 50.4 | 07 | 482.9 | 46.0 |
| N. Hawaiian/Pac. Islander | 165 | 08 | 486.0 | 42.3 | 07 | 463.5 | 39.6 |
| White | 27756 | 08 | 537.1 | 47.9 | 07 | 512.3 | 46.0 |
| Asian | 911 | 09 | 555.8 | 56.6 | 08 | 544.0 | 51.9 |
| African American | 2235 | 09 | 498.8 | 50.5 | 08 | 493.4 | 48.0 |
| Hispanic | 4620 | 09 | 517.6 | 51.6 | 08 | 511.3 | 47.5 |
| Two or more races | 1640 | 09 | 529.7 | 55.1 | 08 | 521.4 | 49.7 |
| American Indian | 137 | 09 | 514.9 | 55.0 | 08 | 505.4 | 48.2 |
| N. Hawaiian/Pac. Islander | 159 | 09 | 493.5 | 50.0 | 08 | 484.9 | 46.3 |
| White | 28426 | 09 | 545.5 | 53.0 | 08 | 535.6 | 47.6 |


| Asian | 862 | 10 | 596.2 | 64.4 | 09 | 561.1 | 57.9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| African American | 2066 | 10 | 527.8 | 54.5 | 09 | 501.6 | 50.4 |
| Hispanic | 4672 | 10 | 547.2 | 58.3 | 09 | 518.2 | 53.9 |
| Two or more races | 1490 | 10 | 563.2 | 62.2 | 09 | 533.7 | 56.9 |
| American Indian | 116 | 10 | 537.9 | 48.0 | 09 | 514.0 | 49.4 |
| N. Hawaiian/Pac. Is/ander | 126 | 10 | 517.3 | 49.7 | 09 | 492.6 | 47.9 |
| White | 28461 | 10 | 578.5 | 58.5 | 09 | 549.3 | 53.3 |
| Asian | 811 | 11 | 610.9 | 64.4 | 10 | 586.7 | 60.9 |
| African American | 1736 | 11 | 548.3 | 54.1 | 10 | 530.3 | 51.7 |
| Hispanic | 4111 | 11 | 568.2 | 56.5 | 10 | 547.2 | 54.6 |
| Two or more races | 1339 | 11 | 583.8 | 60.3 | 10 | 564.0 | 58.4 |
| American Indian | 93 | 11 | 564.2 | 54.9 | 10 | 543.3 | 53.9 |
| N. Hawaiian/Pac. Is/ander | 103 | 11 | 546.3 | 49.6 | 10 | 523.6 | 47.4 |
| White | 27307 | 11 | 599.6 | 57.0 | 10 | 576.6 | 54.6 |

Table 4. Average Scale Scores for Matched Cohort by Race/Ethnicity by Grade for Mathematics

|  |  | 2023 |  |  | 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Race | N-Count | Grade | Mean | SD | Grade | Mean | SD |
| Asian | 898 | 04 | 446.3 | 41.8 | 03 | 420.0 | 35.3 |
| African American | 2215 | 04 | 409.1 | 29.6 | 03 | 390.4 | 24.9 |
| Hispanic | 4307 | 04 | 419.4 | 32.5 | 03 | 398.2 | 26.9 |
| Two or more races | 1849 | 04 | 427.9 | 36.7 | 03 | 405.9 | 30.6 |
| American Indian | 114 | 04 | 419.4 | 31.9 | 03 | 394.9 | 26.8 |
| N. Hawaiian/Pac. Islander | 176 | 04 | 402.5 | 25.2 | 03 | 383.5 | 19.8 |
| White | 26710 | 04 | 440.7 | 36.4 | 03 | 416.6 | 30.2 |
| Asian | 948 | 05 | 473.4 | 49.0 | 04 | 440.4 | 40.2 |
| African American | 2209 | 05 | 427.1 | 31.5 | 04 | 403.2 | 26.4 |
| Hispanic | 4131 | 05 | 437.7 | 35.7 | 04 | 414.6 | 30.8 |
| Two or more races | 1814 | 05 | 447.4 | 40.1 | 04 | 423.7 | 35.2 |
| American Indian | 140 | 05 | 435.0 | 35.1 | 04 | 413.1 | 33.7 |
| N. Hawaiian/Pac. Islander | 175 | 05 | 423.8 | 31.6 | 04 | 401.6 | 25.0 |
| White | 26494 | 05 | 460.8 | 40.0 | 04 | 436.9 | 35.2 |
| Asian | 896 | 06 | 496.2 | 55.8 | 05 | 468.7 | 51.1 |
| African American | 2272 | 06 | 445.5 | 36.1 | 05 | 422.8 | 32.0 |
| Hispanic | 4260 | 06 | 457.3 | 38.8 | 05 | 433.3 | 35.6 |
| Two or more races | 1583 | 06 | 469.6 | 45.4 | 05 | 443.2 | 40.7 |
| American Indian | 119 | 06 | 451.1 | 41.3 | 05 | 429.6 | 36.2 |
| N. Hawaiian/Pac. Islander | 179 | 06 | 446.7 | 34.5 | 05 | 419.5 | 28.4 |
| White | 26483 | 06 | 484.0 | 45.9 | 05 | 456.4 | 41.8 |
| Asian | 868 | 07 | 523.2 | 64.5 | 06 | 497.8 | 59.0 |
| African American | 2262 | 07 | 464.0 | 38.4 | 06 | 440.8 | 37.3 |
| Hispanic | 4364 | 07 | 478.4 | 43.6 | 06 | 455.2 | 42.1 |
| Two or more races | 1717 | 07 | 489.0 | 51.5 | 06 | 465.4 | 47.6 |
| American Indian | 127 | 07 | 478.0 | 46.4 | 06 | 450.7 | 43.3 |


| N. Hawaiian/Pac. Islander | 169 | 07 | 459.7 | 33.6 | 06 | 437.1 | 31.7 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| White | 27286 | 07 | 506.9 | 51.6 | 06 | 482.0 | 47.6 |
| Asian | 854 | 08 | 556.3 | 68.2 | 07 | 516.4 | 63.3 |
| African American | 2290 | 08 | 489.7 | 43.9 | 07 | 459.8 | 36.4 |
| Hispanic | 4534 | 08 | 507.4 | 48.4 | 07 | 474.0 | 40.5 |
| Two or more races | 1669 | 08 | 518.7 | 57.4 | 07 | 485.1 | 49.7 |
| American Indian | 115 | 08 | 503.8 | 52.7 | 07 | 468.8 | 43.7 |
| N. Hawaiian/Pac. Islander | 161 | 08 | 487.0 | 38.7 | 07 | 456.5 | 30.9 |
| White | 27802 | 08 | 537.1 | 56.7 | 07 | 501.7 | 50.0 |
| Asian | 909 | 09 | 577.3 | 82.6 | 08 | 548.4 | 68.9 |
| African American | 2259 | 09 | 498.1 | 45.8 | 08 | 484.4 | 39.3 |
| Hispanic | 4649 | 09 | 515.6 | 52.5 | 08 | 499.5 | 43.8 |
| Two or more races | 1650 | 09 | 526.5 | 61.5 | 08 | 507.5 | 51.1 |
| American Indian | 139 | 09 | 514.3 | 55.3 | 08 | 496.3 | 45.3 |
| N. Hawaiian/Pac. Islander | 163 | 09 | 495.3 | 41.9 | 08 | 479.9 | 34.2 |
| White | 28494 | 09 | 548.8 | 63.5 | 08 | 526.7 | 53.7 |
| Asian | 870 | 10 | 604.3 | 76.0 | 09 | 574.3 | 78.6 |
| African American | 2091 | 10 | 528.9 | 41.5 | 09 | 495.9 | 42.2 |
| Hispanic | 4712 | 10 | 544.1 | 47.5 | 09 | 511.3 | 49.2 |
| Two or more races | 1498 | 10 | 557.3 | 58.0 | 09 | 526.3 | 59.2 |
| American Indian | 116 | 10 | 535.2 | 40.3 | 09 | 504.7 | 44.5 |
| N. Hawaiian/Pac. Islander | 130 | 10 | 524.1 | 37.9 | 09 | 494.7 | 36.0 |
| White | 28551 | 10 | 574.9 | 58.8 | 09 | 542.9 | 59.3 |
| Asian | 815 | 11 | 630.1 | 79.4 | 10 | 592.0 | 72.4 |
| African American | 1768 | 11 | 551.3 | 47.3 | 10 | 521.7 | 43.7 |
| Hispanic | 4155 | 11 | 570.6 | 55.9 | 10 | 537.6 | 49.8 |
| Two or more races | 1355 | 11 | 586.6 | 64.9 | 10 | 552.4 | 57.5 |
| American Indian | 94 | 11 | 563.5 | 53.9 | 10 | 529.3 | 52.3 |
| N. Hawaiian/Pac. Islander | 110 | 11 | 557.3 | 49.4 | 10 | 522.5 | 46.0 |
| White | 27406 | 11 | 606.7 | 65.6 | 10 | 569.9 | 59.0 |

Table 5. Average Scale Scores for Matched Cohort by Individualized Education Plan (IEP) by Subject and Grade

| Subject ELA |  |  | 2023 |  |  | 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | IEP | N-Count | Grade | Mean | SD | Grade | Mean | SD |
|  | No | 30986 | 04 | 442.3 | 30.8 | 03 | 415.2 | 26.4 |
| Math | Yes | 5256 | 04 | 402.0 | 29.4 | 03 | 382.6 | 21.9 |
|  | No | 30803 | 05 | 464.4 | 36.4 | 04 | 443.7 | 31.1 |
|  | Yes | 5041 | 05 | 417.3 | 31.7 | 04 | 400.6 | 28.1 |
|  | No | 30904 | 06 | 490.9 | 40.2 | 05 | 462.4 | 35.3 |
|  | Yes | 4842 | 06 | 439.9 | 35.5 | 05 | 415.0 | 28.9 |
|  | No | 31997 | 07 | 517.0 | 45.9 | 06 | 484.8 | 39.3 |
|  | Yes | 4702 | 07 | 458.3 | 37.3 | 06 | 433.3 | 32.0 |
|  | No | 32893 | 08 | 538.1 | 46.2 | 07 | 513.2 | 44.7 |
|  | Yes | 4461 | 08 | 474.7 | 40.2 | 07 | 454.2 | 35.1 |
|  | No | 33709 | 09 | 546.4 | 51.7 | 08 | 537.1 | 45.7 |
|  | Yes | 4419 | 09 | 479.2 | 38.5 | 08 | 471.6 | 37.8 |
|  | No | 33908 | 10 | 578.7 | 58.0 | 09 | 549.4 | 52.6 |
|  | Yes | 3885 | 10 | 507.2 | 41.4 | 09 | 479.8 | 38.6 |
|  | No | 32314 | 11 | 599.5 | 56.5 | 10 | 576.9 | 53.7 |
|  | Yes | 3186 | 11 | 526.1 | 39.2 | 10 | 505.1 | 38.7 |
|  | No | 30996 | 04 | 440.4 | 35.8 | 03 | 416.2 | 30.0 |
|  | Yes | 5273 | 04 | 406.5 | 31.2 | 03 | 388.1 | 24.6 |
|  | No | 30851 | 05 | 460.9 | 39.6 | 04 | 436.3 | 34.8 |
|  | Yes | 5060 | 05 | 422.2 | 31.5 | 04 | 401.5 | 27.6 |
|  | No | 30929 | 06 | 483.9 | 45.1 | 05 | 456.4 | 41.3 |
|  | Yes | 4863 | 06 | 438.5 | 34.9 | 05 | 416.4 | 29.4 |
|  | No | 32062 | 07 | 506.9 | 50.9 | 06 | 482.1 | 46.9 |
|  | Yes | 4731 | 07 | 454.6 | 34.6 | 06 | 431.1 | 33.5 |
|  | No | 32933 | 08 | 537.1 | 55.9 | 07 | 501.1 | 49.4 |
|  | Yes | 4492 | 08 | 477.3 | 36.8 | 07 | 450.9 | 31.0 |
|  | No | 33807 | 09 | 548.6 | 63.0 | 08 | 526.4 | 53.2 |
|  | Yes | 4456 | 09 | 483.9 | 36.1 | 08 | 473.5 | 31.0 |
|  | No | 34037 | 10 | 574.2 | 58.4 | 09 | 542.4 | 59.1 |
|  | Yes | 3931 | 10 | 516.0 | 32.7 | 09 | 481.8 | 32.7 |
|  | No | 32477 | 11 | 605.6 | 65.2 | 10 | 569.1 | 58.6 |
|  | Yes | 3226 | 11 | 534.9 | 33.8 | 10 | 505.7 | 31.9 |

Table 6. Average Scale Scores for Matched Cohort by Free and Reduced Lunch (FRL) by Subject and Grade


Table 7. Average Scale Score for Matched Cohort for English Learners (EL) by Subject and Grade

| Subject ELA |  |  | 2023 |  |  | 2022 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | EL | N-Count | Grade | Mean | SD | Grade | Mean | SD |
|  | No | 33944 | 04 | 438.8 | 33.0 | 03 | 412.5 | 27.7 |
| Math | Yes | 2298 | 04 | 402.2 | 24.1 | 03 | 380.7 | 17.1 |
|  | No | 33984 | 05 | 460.2 | 38.6 | 04 | 439.9 | 33.2 |
|  | Yes | 1860 | 05 | 414.4 | 24.6 | 04 | 395.4 | 20.7 |
|  | No | 34051 | 06 | 486.4 | 42.4 | 05 | 458.3 | 37.2 |
|  | Yes | 1695 | 06 | 433.8 | 27.6 | 05 | 408.5 | 22.7 |
|  | No | 35196 | 07 | 512.0 | 48.0 | 06 | 480.5 | 41.2 |
|  | Yes | 1503 | 07 | 450.0 | 29.8 | 06 | 424.1 | 23.2 |
|  | No | 35845 | 08 | 533.1 | 48.9 | 07 | 508.8 | 46.6 |
|  | Yes | 1509 | 08 | 468.7 | 32.7 | 07 | 444.4 | 28.0 |
|  | No | 36491 | 09 | 541.6 | 53.7 | 08 | 532.3 | 48.3 |
|  | Yes | 1637 | 09 | 472.2 | 30.9 | 08 | 467.6 | 32.8 |
|  | No | 36069 | 10 | 574.9 | 59.2 | 09 | 545.7 | 54.0 |
|  | Yes | 1724 | 10 | 496.8 | 35.1 | 09 | 469.0 | 31.3 |
|  | No | 33978 | 11 | 596.3 | 57.6 | 10 | 573.7 | 55.0 |
|  | Yes | 1522 | 11 | 517.4 | 32.2 | 10 | 496.8 | 32.0 |
|  | No | 33968 | 04 | 437.7 | 36.8 | 03 | 414.2 | 30.5 |
|  | Yes | 2301 | 04 | 402.1 | 23.1 | 03 | 382.4 | 17.8 |
|  | No | 34048 | 05 | 457.6 | 40.5 | 04 | 433.4 | 35.6 |
|  | Yes | 1863 | 05 | 417.3 | 24.1 | 04 | 394.7 | 18.5 |
|  | No | 34092 | 06 | 480.0 | 46.2 | 05 | 453.0 | 42.0 |
|  | Yes | 1700 | 06 | 433.0 | 25.2 | 05 | 411.2 | 20.8 |
|  | No | 35281 | 07 | 502.3 | 51.9 | 06 | 477.7 | 48.1 |
|  | Yes | 1512 | 07 | 449.7 | 26.9 | 06 | 425.6 | 26.8 |
|  | No | 35912 | 08 | 532.2 | 57.1 | 07 | 497.1 | 50.1 |
|  | Yes | 1513 | 08 | 475.1 | 29.2 | 07 | 445.5 | 22.1 |
|  | No | 36612 | 09 | 543.8 | 63.7 | 08 | 522.5 | 53.7 |
|  | Yes | 1651 | 09 | 481.0 | 28.4 | 08 | 470.8 | 25.9 |
|  | No | 36226 | 10 | 570.9 | 58.8 | 09 | 538.9 | 59.6 |
|  | Yes | 1742 | 10 | 512.7 | 28.3 | 09 | 479.6 | 27.7 |
|  | No | 34147 | 11 | 602.2 | 65.9 | 10 | 566.1 | 59.1 |
|  | Yes | 1556 | 11 | 534.8 | 30.4 | 10 | 503.6 | 28.1 |

## Gain Scores

The ISASP tests are vertically aligned and scaled. This means that each successive test level builds upon the content and skills previously measured to ensure that tests taken over multiple grade levels show a coherent progression in learning. Each test is developed for a different grade level, student growth and progress can be monitored using the same scale. Table 8 provides the predicted growth between two grades.

Gain scores can be used to quantify the change in performance from one year to the next for either an individual student or for a group of students. Average gain scores for a class or school can be calculated by subtracting each student's prior scale score from their current-year score (i.e., $\mathrm{SS}_{\text {Year2 }}-\mathrm{SS}_{\text {Year1 }}$ ) and then taking the average over all students. The sign and magnitude of the gain scores are important in indicating the change in performance. The magnitude of the gain score indicates how much the group of students has changed, whereas the sign indicates if the gain is positive (signifying improvement) or negative (signifying decline).

Table 8. Predicted Growth based on ISASP Vertical Scale

| Grade | Mean Scale Score |  | Standard <br> Deviation |
| :---: | :---: | :---: | :---: |
| 03 | 409 | 28.7 | Predicted Growth <br> for One Year |
| 04 | 432 | 34.4 | 23 |
| 05 | 454 | 41.3 | 22 |
| 06 | 476 | 45.5 | 22 |
| 07 | 500 | 50.0 | 24 |
| 08 | 521 | 55.0 | 21 |
| 09 | 544 | 60.5 | 23 |
| 10 | 568 | 60.5 | 24 |
| 11 | 593 | 60.5 | 25 |

