

Title VII Indian Education Native Advisory Committee

Alaska Native/American Indian Students

- Several students who had been reported under the category of “two or more races” or “Hispanic” in Fall Oasis are now reported as Alaska Native/American Indian for the purposes of this study.
- Enrollment counts of Alaska Native/American Indian students on October 1, 2009 was 8,452 (including those that may have been considered “two or more races” or “Hispanic” in the Fall Oasis).

Participation Rates

- The participation rate of Alaska Native/American Indian (AN/AI) students on the Standards Based Assessments in April 2010 was 98.20 percent (-0.04 percentage points from previous year)
- You must have a minimum of 95% of students participating in order to make the requirement for Adequate Yearly Progress (AYP)
- The participation rate of White students was 99.03 percent (+0.15 percentage points) and All students was 98.92 percent (+0.09 percentage points)

Participation Rates 2009-10

| Alaska Native/American Indian | | Tested | Enrolled | Participation Rate |
|-------------------------------|-------|--------|----------|--------------------|
| | | N | N | % |
| GRADE | 3 | 700 | 701 | 99.86% |
| | 4 | 673 | 674 | 99.85% |
| | 5 | 725 | 736 | 98.51% |
| | 6 | 628 | 632 | 99.37% |
| | 7 | 595 | 604 | 98.51% |
| | 8 | 621 | 628 | 98.89% |
| | 9 | 519 | 545 | 95.23% |
| | 10 | 503 | 535 | 94.02% |
| | Total | 4,964 | 5,055 | 98.20% |

| White | | Tested | Enrolled | Participation Rate |
|-------|-------|--------|----------|--------------------|
| | | N | N | % |
| GRADE | 3 | 1,736 | 1,746 | 99.43% |
| | 4 | 1,704 | 1,715 | 99.36% |
| | 5 | 1,747 | 1,761 | 99.20% |
| | 6 | 1,739 | 1,749 | 99.43% |
| | 7 | 1,733 | 1,752 | 98.92% |
| | 8 | 1,764 | 1,773 | 99.49% |
| | 9 | 1,842 | 1,875 | 98.24% |
| | 10 | 1,797 | 1,829 | 98.25% |
| | Total | 14,062 | 14,200 | 99.03% |

| All Students | | Tested | Enrolled | Participation Rate |
|--------------|-------|--------|----------|--------------------|
| | | N | N | % |
| GRADE | 3 | 3,823 | 3,838 | 99.61% |
| | 4 | 3,762 | 3,783 | 99.44% |
| | 5 | 3,858 | 3,890 | 99.18% |
| | 6 | 3,656 | 3,675 | 99.48% |
| | 7 | 3,621 | 3,661 | 98.91% |
| | 8 | 3,612 | 3,635 | 99.37% |
| | 9 | 3,630 | 3,710 | 97.84% |
| | 10 | 3,505 | 3,596 | 97.47% |
| | Total | 29,467 | 29,788 | 98.92% |

SBA Proficiency Levels

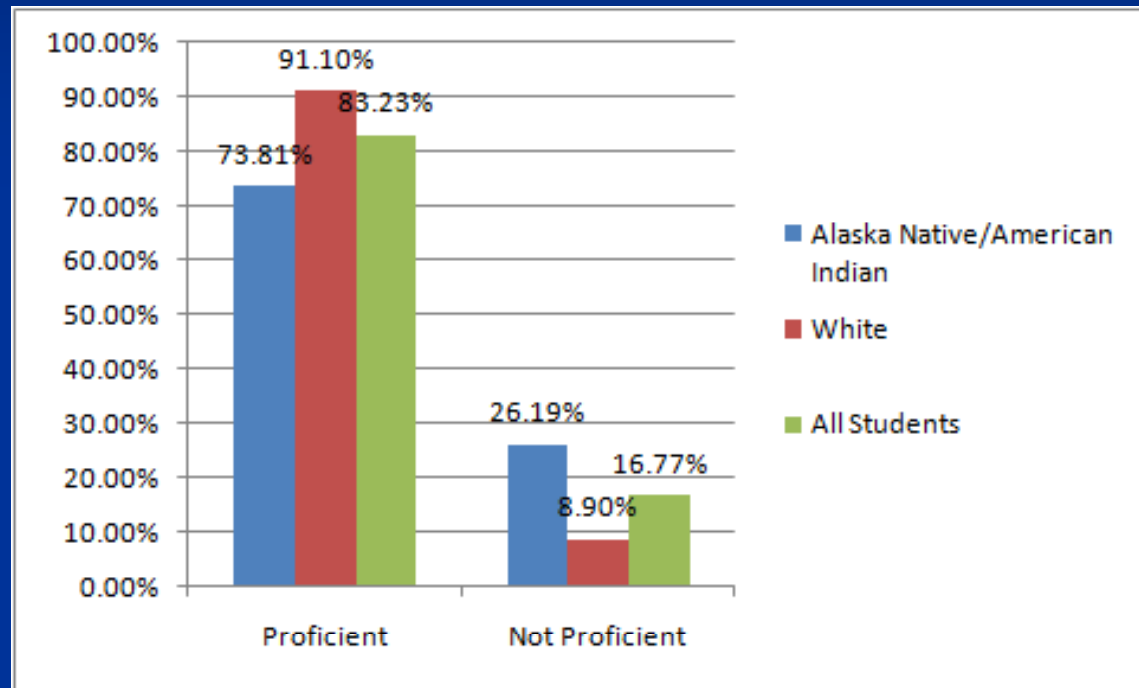
Percent differences from 2008-09 to 2009-10 school years were identified for Alaska Native/American Indian students.

- On the SBA reading the percent scoring proficient or above increased from 68.64 percent to 73.81 percent;
- On the SBA writing subtest the percent scoring proficient or above decreased from 65.48 percent to 63.44 percent;
- On the SBA mathematics subtest the percent scoring proficient or above increased from 58.20 percent to 61.60 percent;
- On the SBA science subtest the percent scoring proficient or above increased from 41.53 percent to 45.14 percent.

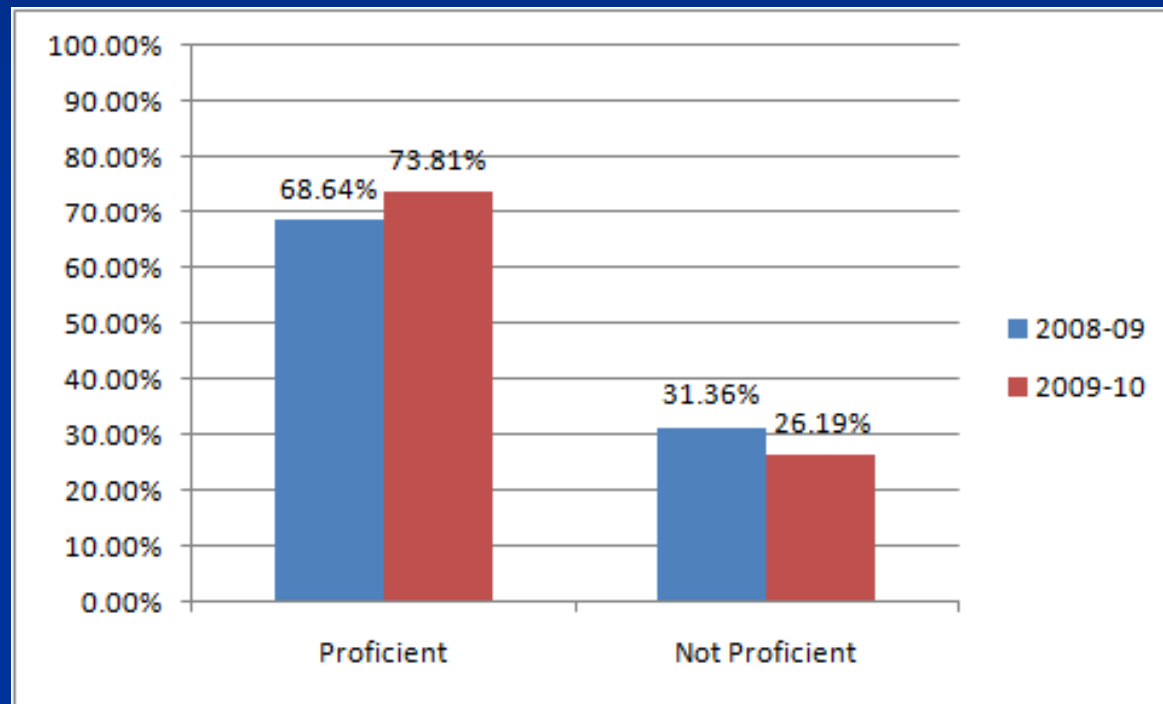
SBA Proficiency Levels

- Percent proficient lowest in science for AN/AI students - same for White and All Students
- Percent proficient highest in reading for AN/AI students - same for White and All Students
- Greatest gap between AN/AI students and White students in science – 29.54 percentage points gap

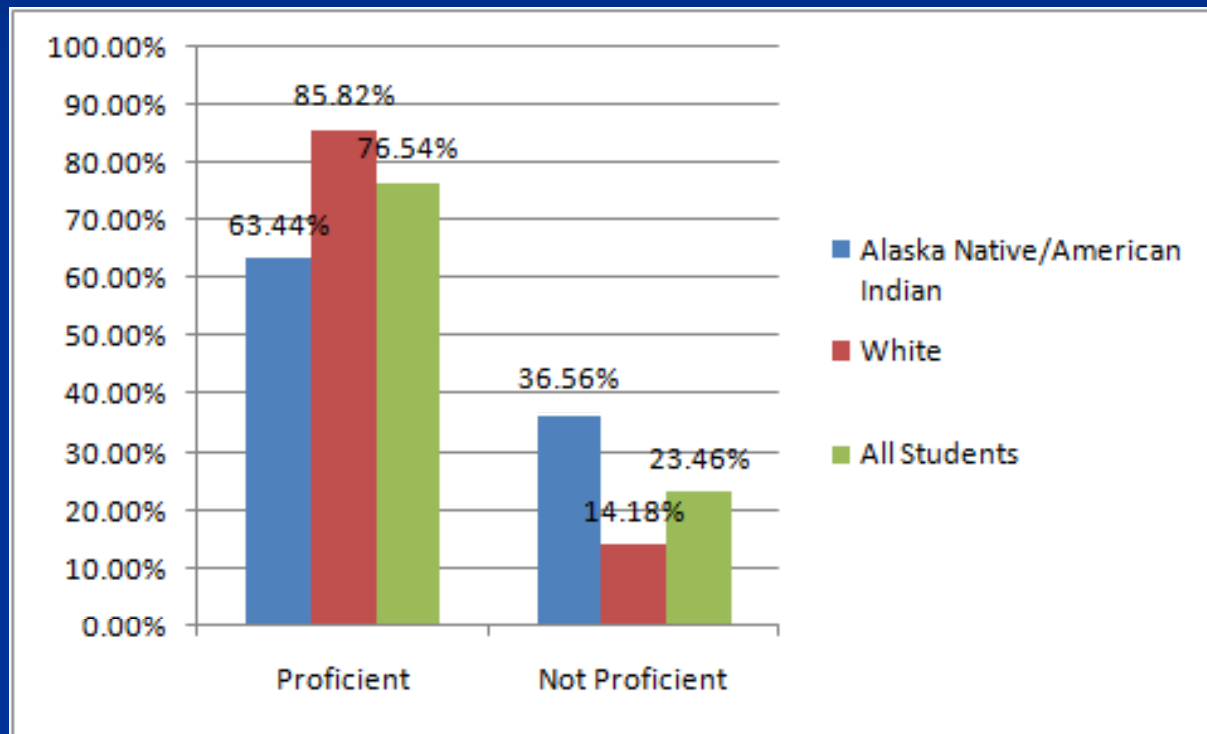
2009-10 Reading Proficiency Levels AN/AI to Comparison Groups



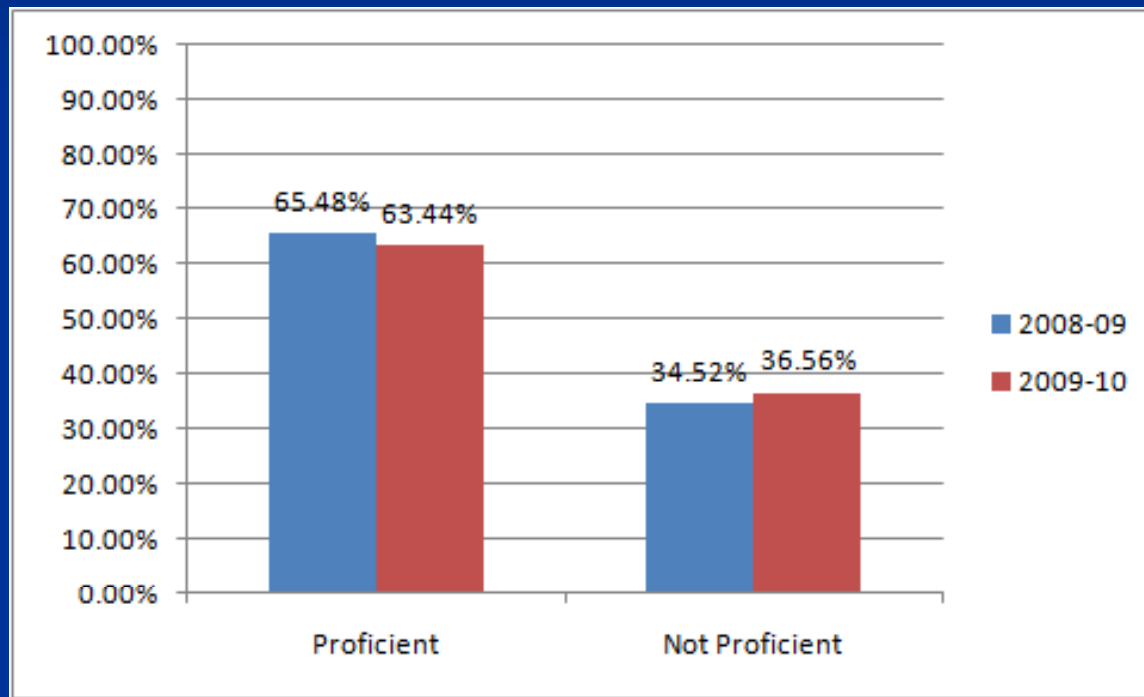
Reading Proficiency Levels AN/AI 2008-09 to 2009-10



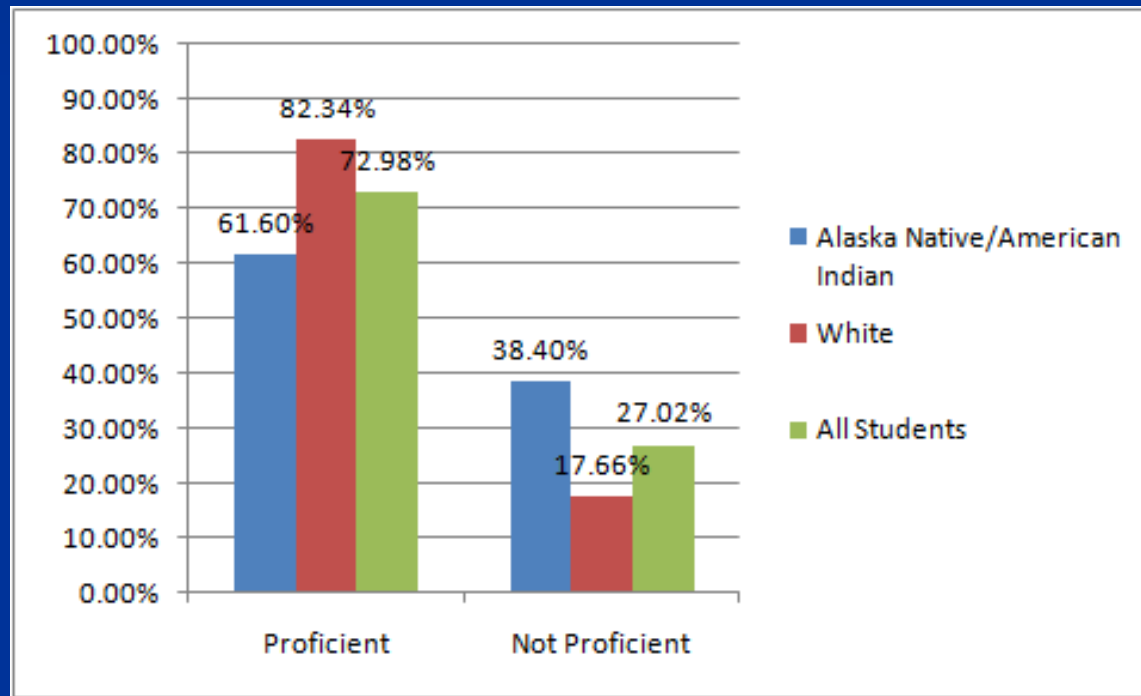
2009-10 Writing Proficiency Levels AN/AI to Comparison Groups



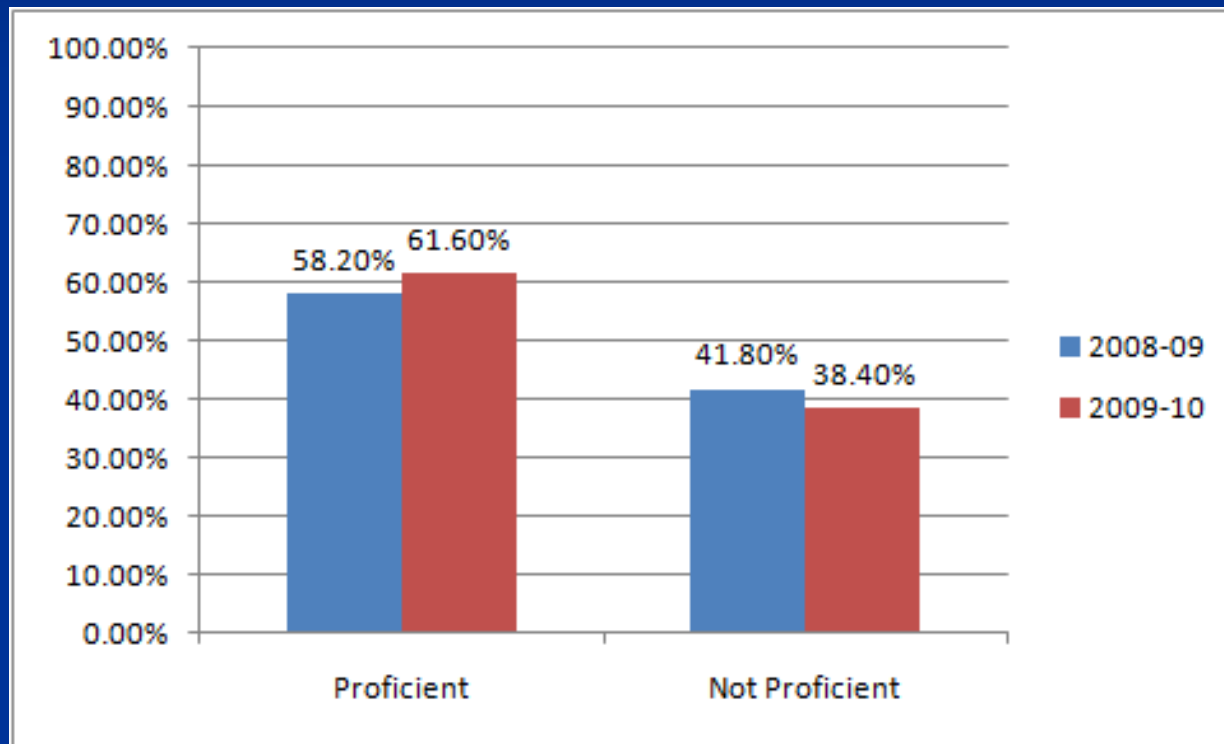
Writing Proficiency Levels AN/AI 2008-09 to 2009-10



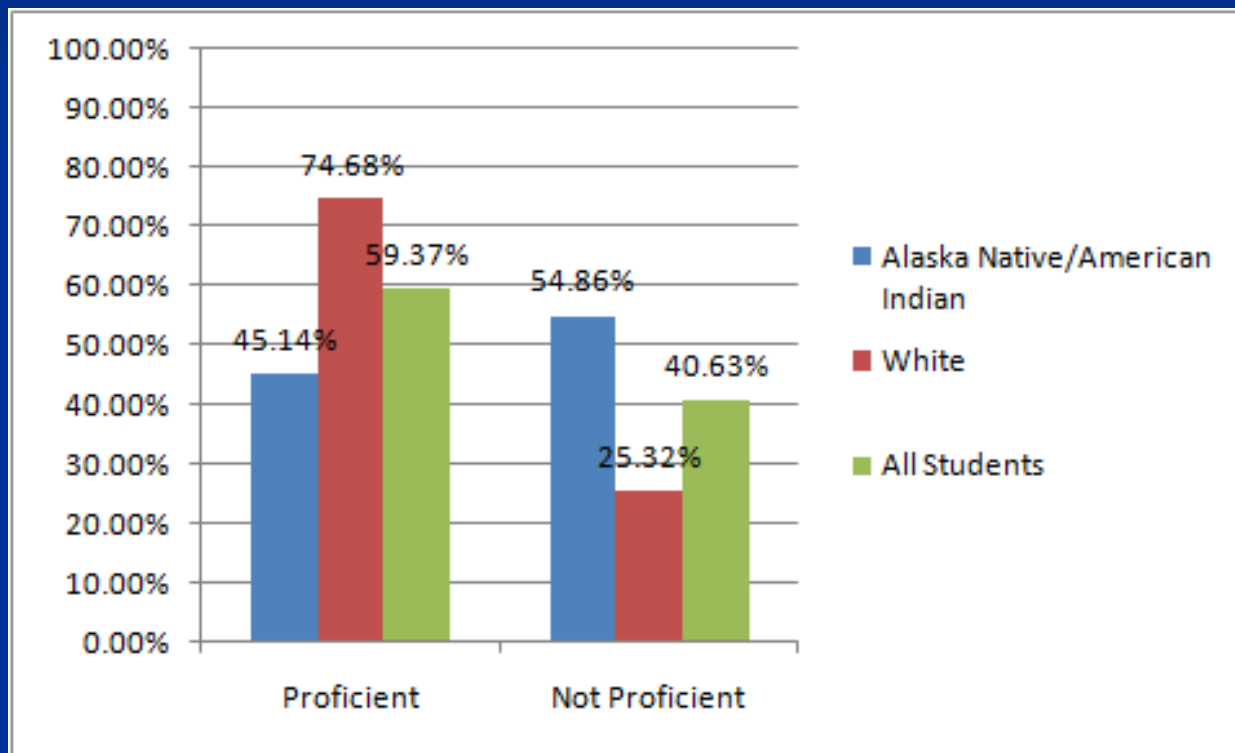
2009-10 Mathematics Proficiency Levels AN/AI to Comparison Groups



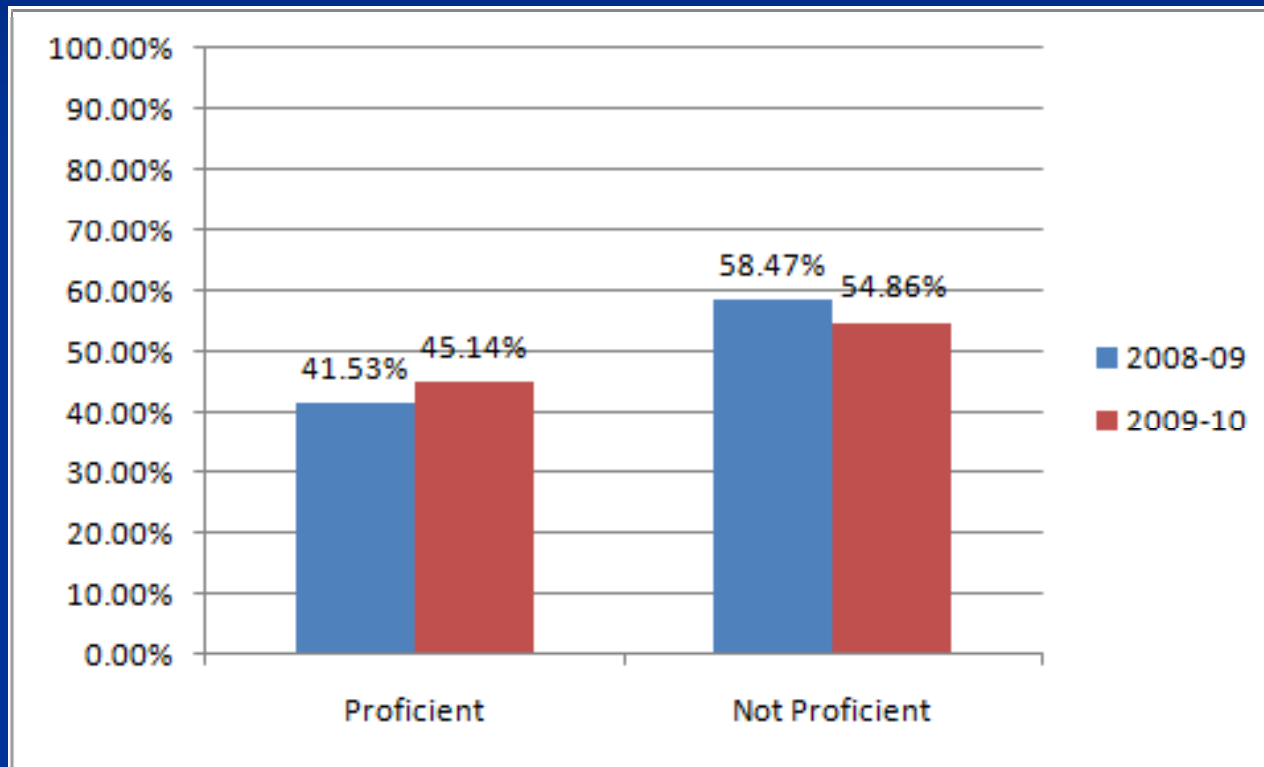
Mathematics Proficiency Levels AN/AI 2008-09 to 2009-10



2009-10 Science Proficiency Levels AN/AI to Comparison Groups (Gr. 4,8,10)



Science Proficiency Levels AN/AI 2008-09 to 2009-10



SBA change in cohort groups

- Change charts show the change in students' average scale scores who tested in 2008-09 and 2009-10. The student has to have scores in both years in order to be included in the calculation.
 - A higher average scale score from one grade to another means that the group is achieving better relative to the standard for proficient at the higher grade.
 - A lower average scale score from one grade to another means that the group is achieving worse relative to the standard for proficient at the higher grade.
- Alaska Native/American Indian students followed the patterns of increase and decrease in difference that occurred within the categories of All Students and the White students for the majority of the comparisons. The grade/subtest categories in which the Alaska Native/American Indian differences were in the opposite directions as either the White or All Students groups were: the reading subtest from grade 5 to 6 and from grade 7 to 8, the writing subtest from grade 5 to 6, the mathematics test from grade 3 to 4.

Change in average scale scores - SBA Reading

| Reading | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | |
|-----------|-------------------------------|---|-----------------|------------|---|-----------------|------------|---|-----------------|------------|
| | | Grade 3 in 2009 | Grade 4 in 2010 | Difference | Grade 4 in 2009 | Grade 5 in 2010 | Difference | Grade 5 in 2009 | Grade 6 in 2010 | Difference |
| Ethnicity | All Students | 372.74 | 377.14 | 4.40 | 368.19 | 379.63 | 11.44 | 376.14 | 375.13 | -1.01 |
| | AK Native/ American Indian | 348.54 | 354.01 | 5.47 | 341.00 | 352.51 | 11.51 | 349.71 | 346.65 | -3.06 |
| | White | 397.27 | 402.49 | 5.22 | 393.49 | 403.33 | 9.84 | 401.14 | 401.41 | 0.27 |

| Reading | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | |
|-----------|-------------------------------|---|-----------------|------------|---|-----------------|------------|---|-----------------|------------|
| | | Grade 6 in 2009 | Grade 7 in 2010 | Difference | Grade 7 in 2009 | Grade 8 in 2010 | Difference | Grade 8 in 2009 | Grade 9 in 2010 | Difference |
| Ethnicity | All Students | 367.57 | 380.53 | 12.96 | 372.44 | 376.34 | 3.90 | 371.03 | 380.37 | 9.34 |
| | AK Native/ American Indian | 329.73 | 346.43 | 16.70 | 349.50 | 354.19 | 4.69 | 340.34 | 359.44 | 11.10 |
| | White | 395.97 | 405.73 | 9.76 | 396.88 | 394.27 | -2.61 | 393.37 | 401.58 | 8.21 |

| Reading | | Average Scale Score of Students Tested in District Both Years | | |
|-----------|-------------------------------|---|------------------|------------|
| | | Grade 9 in 2009 | Grade 10 in 2010 | Difference |
| Ethnicity | All Students | 369.80 | 358.69 | -11.11 |
| | AK Native/ American Indian | 342.18 | 328.35 | -13.83 |
| | White | 391.33 | 381.65 | -9.68 |

Change in average scale scores - SBA Writing

| Writing | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | |
|-----------|-------------------------------|---|-----------------|------------|---|-----------------|------------|---|-----------------|------------|
| | | Grade 3 in 2009 | Grade 4 in 2010 | Difference | Grade 4 in 2009 | Grade 5 in 2010 | Difference | Grade 5 in 2009 | Grade 6 in 2010 | Difference |
| Ethnicity | All Students | 367.22 | 384.56 | 17.34 | 369.78 | 366.90 | -2.88 | 370.26 | 367.46 | -2.80 |
| | AK Native/ American Indian | 341.78 | 351.64 | 9.86 | 340.20 | 333.52 | -6.68 | 341.72 | 332.80 | -8.92 |
| | White | 390.23 | 410.90 | 20.67 | 392.88 | 388.75 | -4.13 | 393.95 | 397.30 | 3.35 |

| Writing | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | |
|-----------|-------------------------------|---|-----------------|------------|---|-----------------|------------|---|-----------------|------------|
| | | Grade 6 in 2009 | Grade 7 in 2010 | Difference | Grade 7 in 2009 | Grade 8 in 2010 | Difference | Grade 8 in 2009 | Grade 9 in 2010 | Difference |
| Ethnicity | All Students | 362.86 | 352.13 | -10.73 | 357.78 | 354.20 | -3.58 | 362.77 | 358.18 | -4.59 |
| | AK Native/ American Indian | 327.75 | 317.55 | -10.20 | 330.77 | 325.17 | -5.60 | 340.33 | 330.61 | -9.72 |
| | White | 386.56 | 374.07 | -12.49 | 379.77 | 373.21 | -6.56 | 382.71 | 378.92 | -3.79 |

| Writing | | Average Scale Score of Students Tested in District Both Years | | |
|-----------|-------------------------------|---|------------------|------------|
| | | Grade 9 in 2009 | Grade 10 in 2010 | Difference |
| Ethnicity | All Students | 357.96 | 345.59 | -12.37 |
| | AK Native/ American Indian | 328.41 | 316.21 | -12.20 |
| | White | 378.10 | 363.44 | -14.66 |

Change in average scale scores - SBA Mathematics

| Mathematics | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | |
|-------------|-------------------------------|---|-----------------|------------|---|-----------------|------------|---|-----------------|------------|
| | | Grade 3 in 2009 | Grade 4 in 2010 | Difference | Grade 4 in 2009 | Grade 5 in 2010 | Difference | Grade 5 in 2009 | Grade 6 in 2010 | Difference |
| Ethnicity | All Students | 358.75 | 359.97 | 1.22 | 354.18 | 364.78 | 10.60 | 353.02 | 360.96 | 7.94 |
| | AK Native/ American Indian | 338.17 | 336.75 | -1.42 | 325.96 | 335.35 | 9.39 | 328.67 | 336.02 | 7.35 |
| | White | 382.42 | 383.02 | 0.60 | 379.08 | 386.65 | 7.57 | 374.67 | 383.41 | 8.74 |

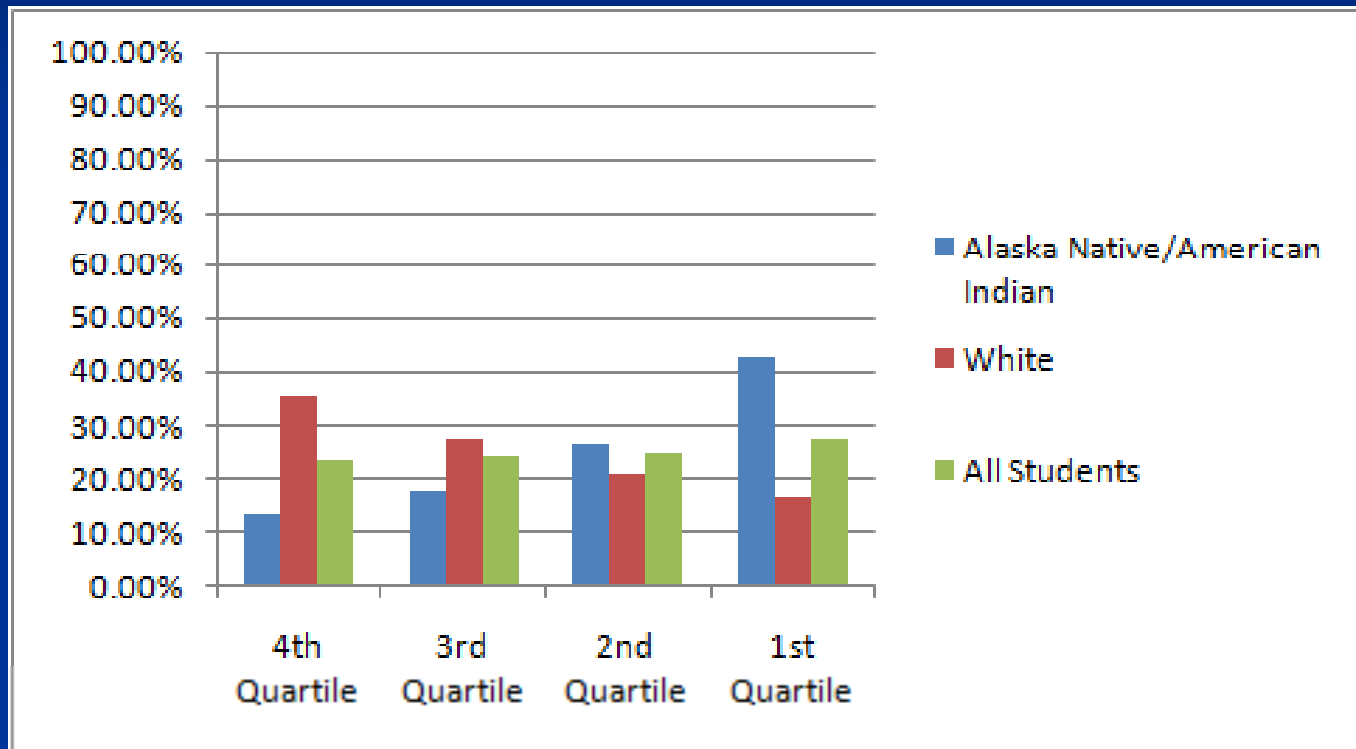
| Mathematics | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | | Average Scale Score of Students Tested in District Both Years | | |
|-------------|-------------------------------|---|-----------------|------------|---|-----------------|------------|---|-----------------|------------|
| | | Grade 6 in 2009 | Grade 7 in 2010 | Difference | Grade 7 in 2009 | Grade 8 in 2010 | Difference | Grade 8 in 2009 | Grade 9 in 2010 | Difference |
| Ethnicity | All Students | 354.84 | 349.84 | -5.00 | 341.61 | 343.51 | 1.90 | 337.14 | 341.03 | 3.89 |
| | AK Native/ American Indian | 321.14 | 316.06 | -5.08 | 321.14 | 322.21 | 1.07 | 318.49 | 320.30 | 1.81 |
| | White | 377.95 | 372.92 | -5.03 | 361.38 | 362.29 | 0.91 | 358.03 | 360.15 | 2.12 |

| Mathematics | | Average Scale Score of Students Tested in District Both Years | | |
|-------------|-------------------------------|---|------------------|------------|
| | | Grade 9 in 2009 | Grade 10 in 2010 | Difference |
| Ethnicity | All Students | 331.03 | 332.50 | 1.47 |
| | AK Native/ American Indian | 303.76 | 303.86 | 0.10 |
| | White | 348.08 | 350.73 | 2.65 |

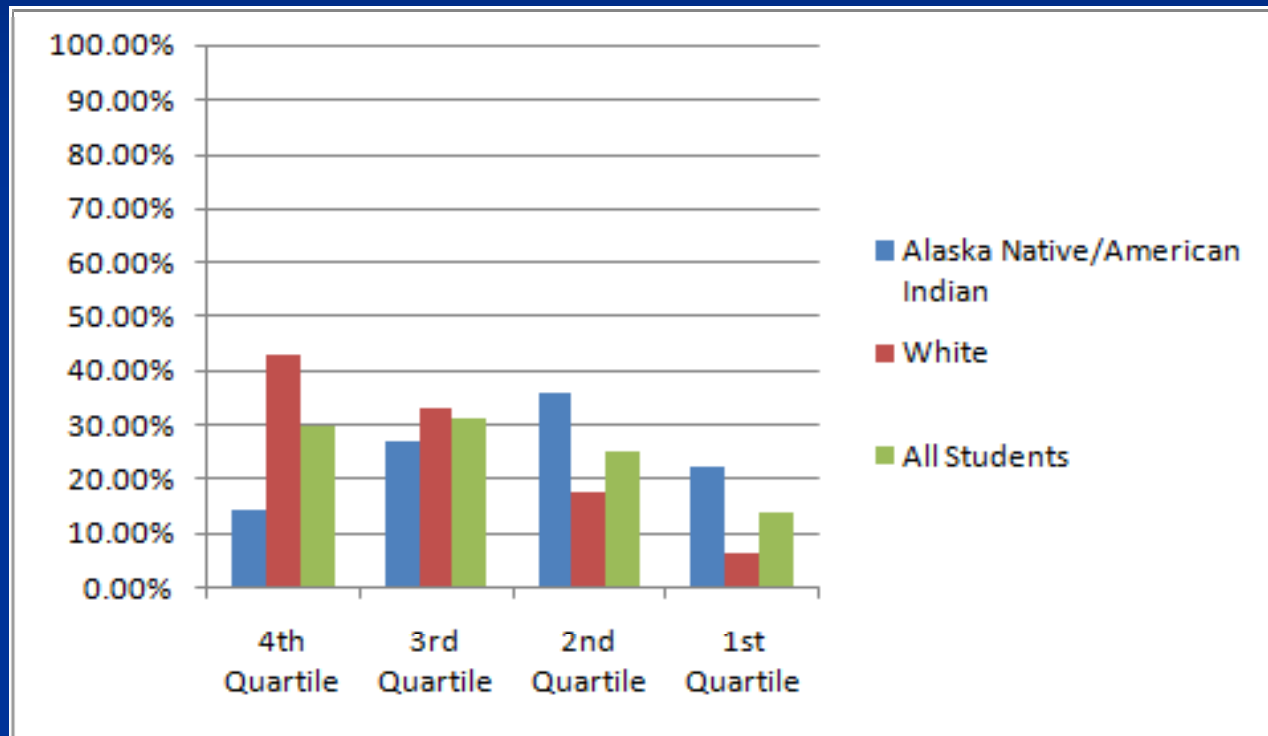
TerraNova by quartiles

- When looking at quartile data on the TN, a national norm would have approximately 25 percent in each quartile.
- When looking at whether they are performing above, average or below average—the national norm would have the following:
 - 25 percent below average
 - 50 percent in the average range
 - 25 percent above the average
- On the TerraNova tests for grades 5 and 7 the Alaska Native/American Indian student population demonstrated opposite displays of quartile percentages than the White students. For instance, the percentage of Alaska Native/American Indian students in the lowest (1st) quartile is higher than in the highest (4th) quartile for all subtests and grades. On the other hand, for White students the percentage in the lowest (1st) quartile is lower than the highest (4th) quartile for all subtests and grades.

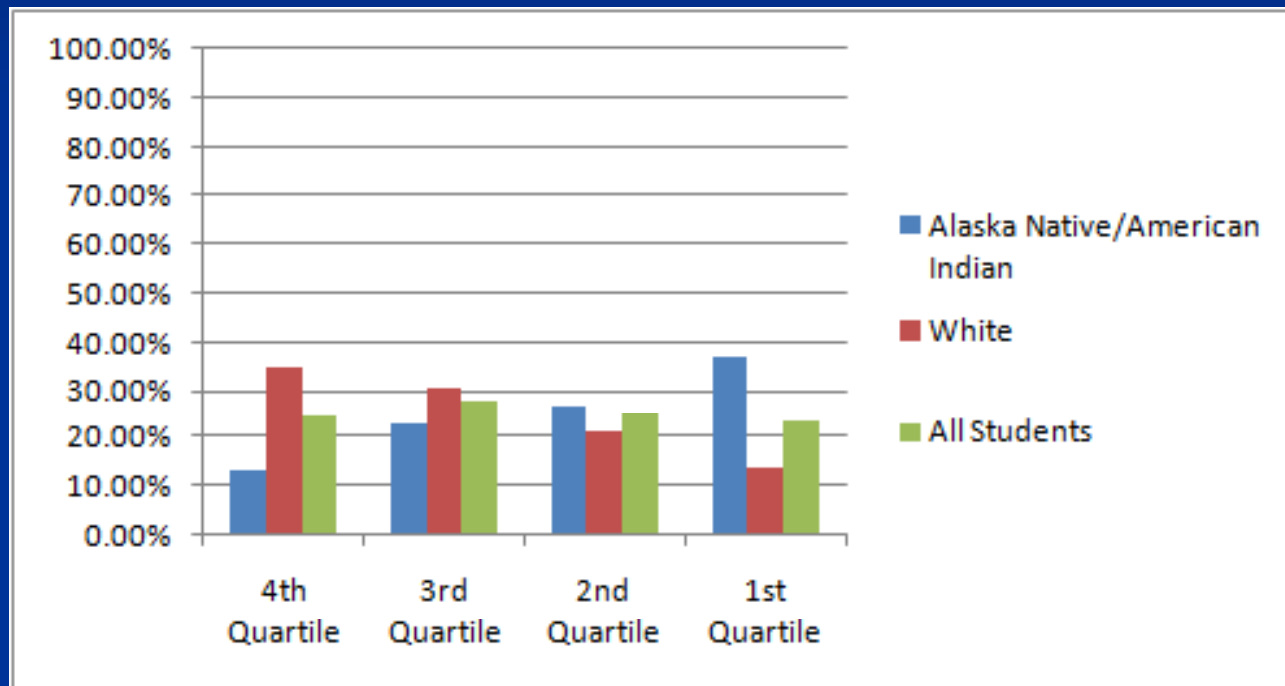
TerraNova Reading Gr. 5



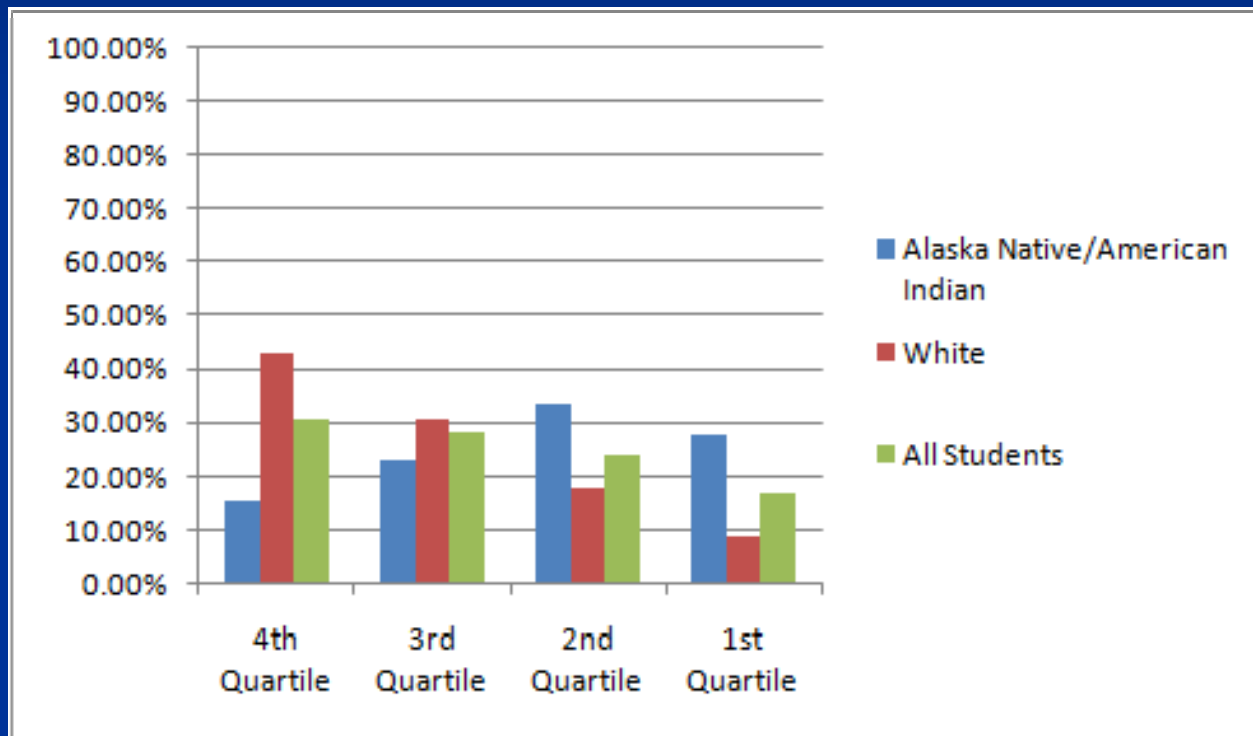
TerraNova Reading Gr. 7



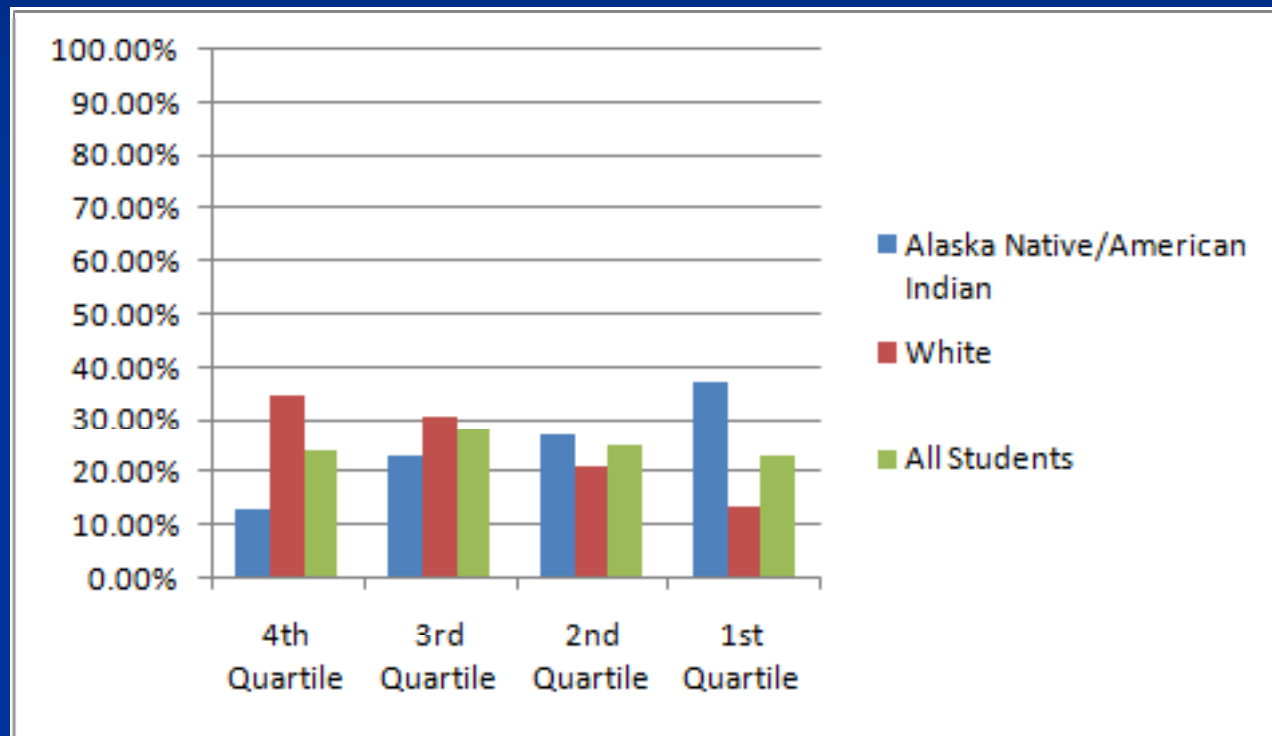
TerraNova Language Gr. 5



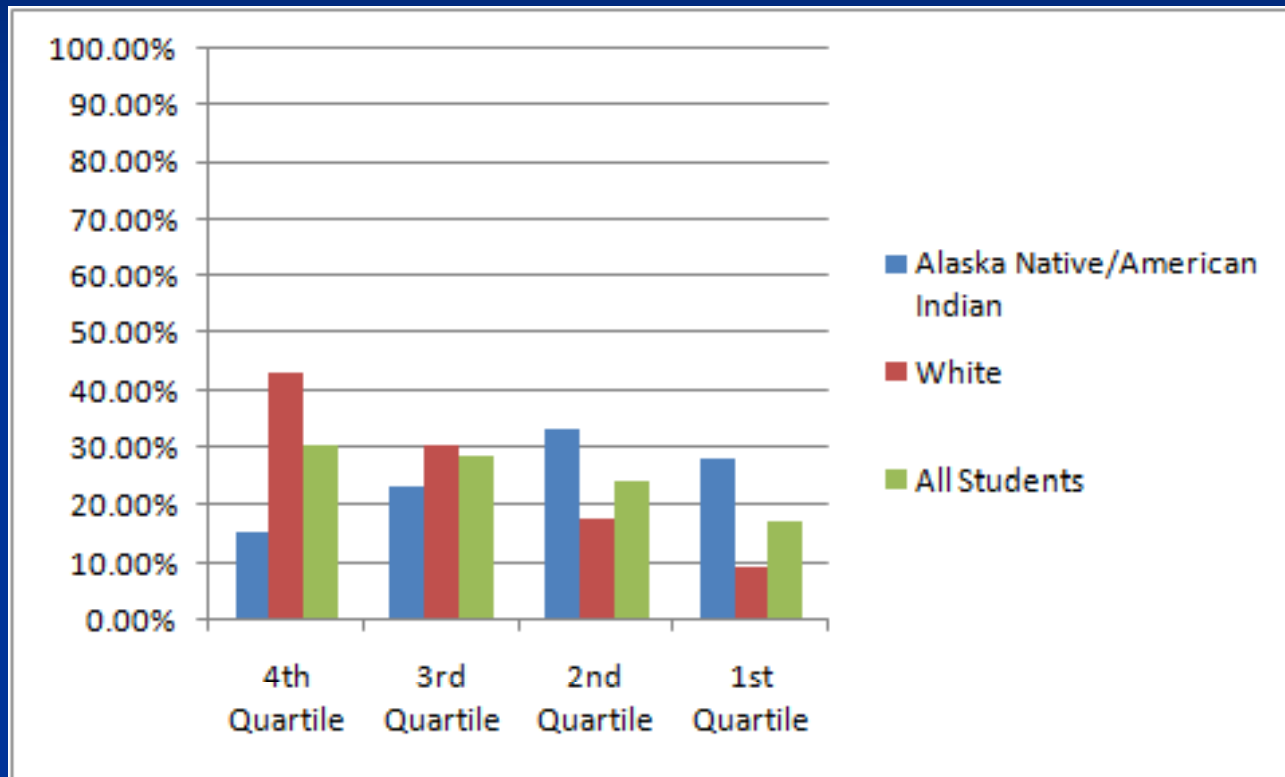
TerraNova Language Gr. 7



TerraNova Mathematics Gr. 5



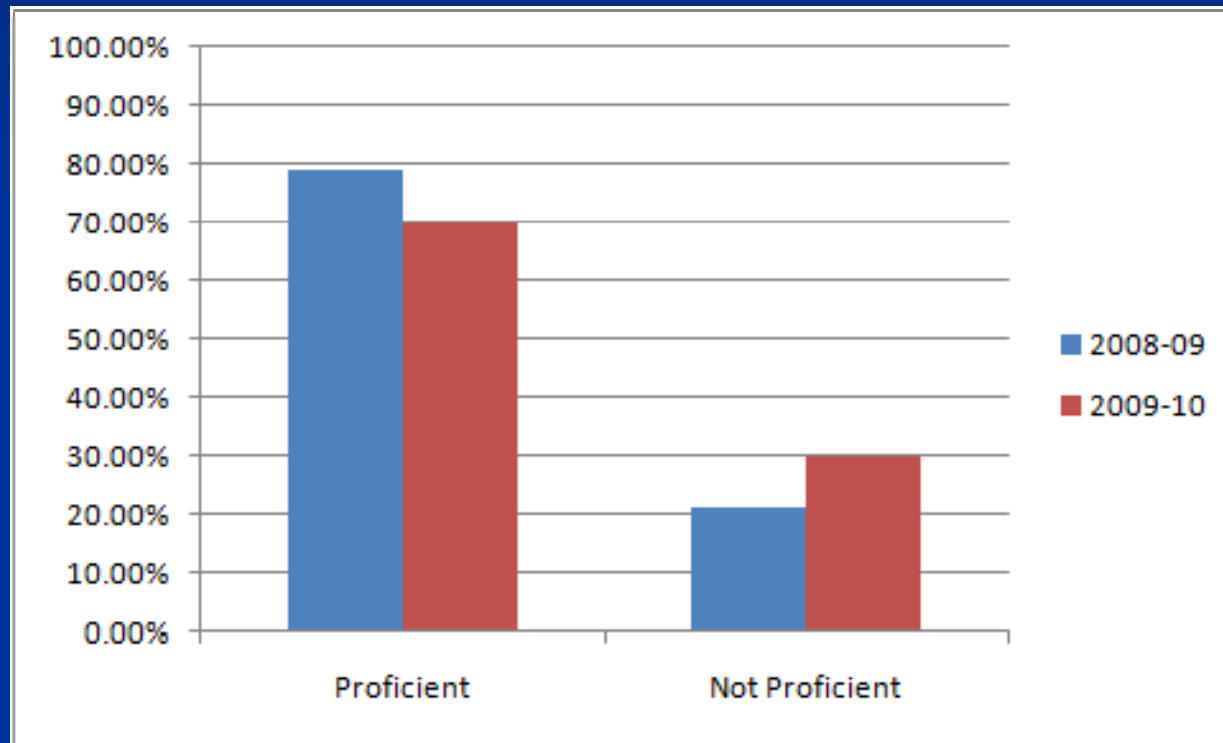
TerraNova Mathematics Gr. 7



Grade 10 HSGQE - Reading

- Reading percent proficient lower for AN/AI students than for White and All Students
- The percent proficient in grade 10 reading was lower in 2009-10 than 2008-09 for AN/AI students

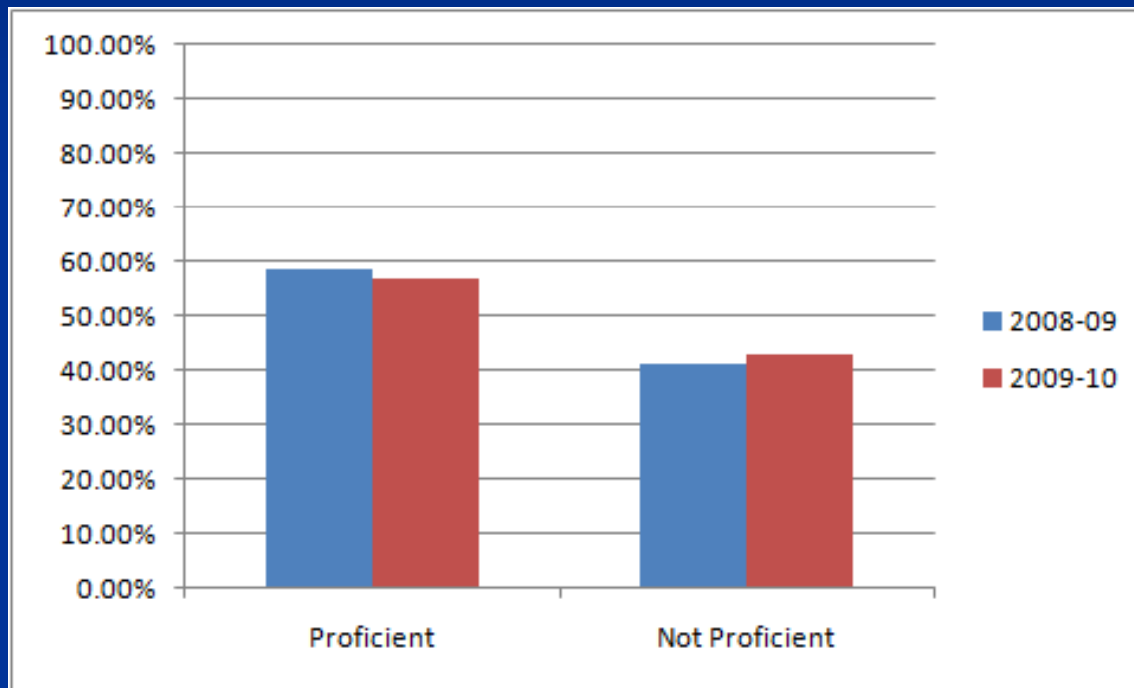
HSGQE Reading - Gr. 10



Grade 10 HSGQE - Writing

- Writing percent proficient lower for AN/AI students than for White and All Students
- The percent proficient in grade 10 writing was lower in 2009-10 than 2008-09 for AN/AI students

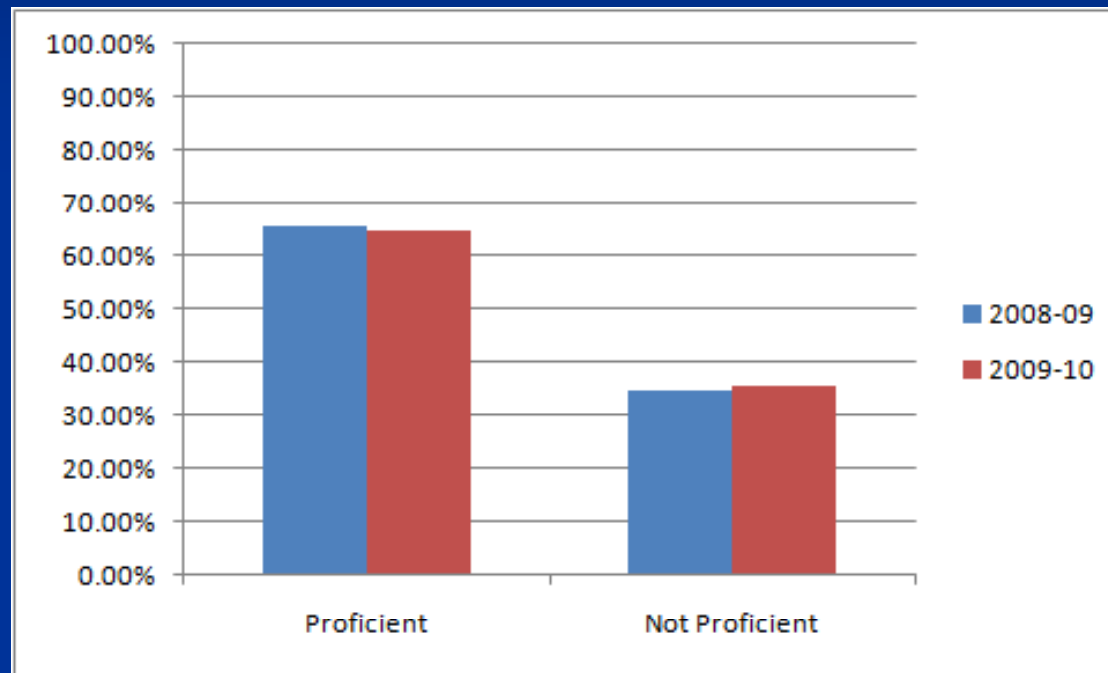
HSGQE Writing - Gr. 10



Grade 10 HSGQE - Mathematics

- Mathematics percent proficient lower for AN/AI students than for White and All Students
- The percent proficient in grade 10 mathematics was lower in 2009-10 than 2008-09 for AN/AI students

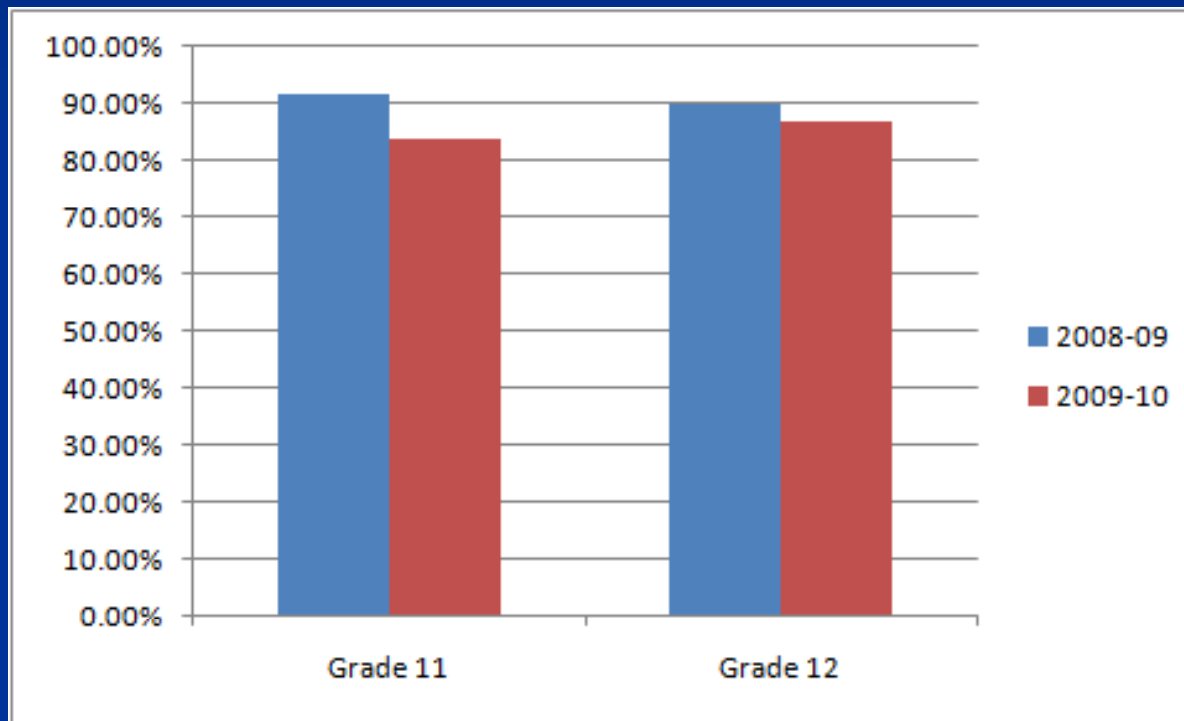
Grade 10 HSGQE - Mathematics



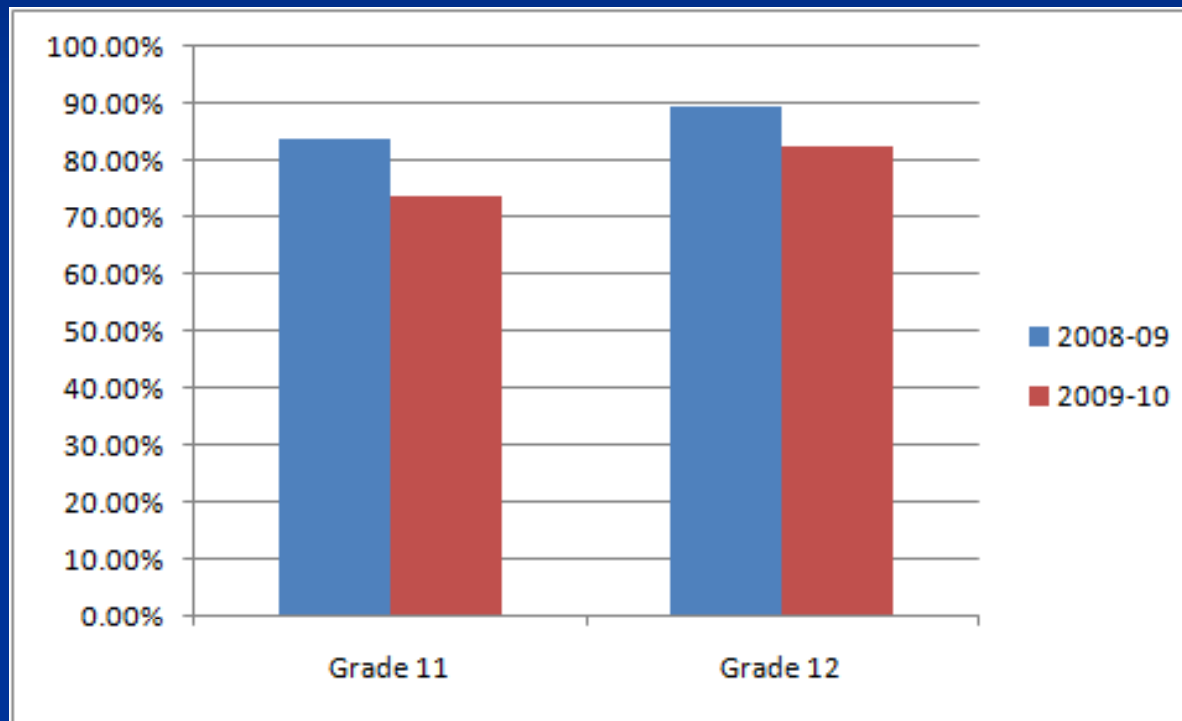
Grade 11 and 12 Cumulative HSGQE Results

- For grade 11 and 12 Alaska Native/American Indian students, the cumulative percent scoring proficient on the HSGQE test was reported.
- When comparing the HSGQE results from 2008-09 and 2009-10 for grade 11 Alaska Native/American Indian students, the percent proficient on reading decreased from 91.84 percent to 83.91 percent; the percent proficient on writing decreased from 84.10 percent to 74.06 percent; and the percent proficient on mathematics decreased from 84.10 percent to 75.78 percent.
- When comparing the HSGQE results from 2008-09 to 2009-10 for grade 12 Alaska Native/American Indian students, the percent proficient on reading decreased from 89.85 percent to 86.78 percent; the percent proficient on writing decreased from 89.40 percent to 82.43 percent; and the percent proficient on mathematics decreased from 87.42 percent to 80.93 percent.

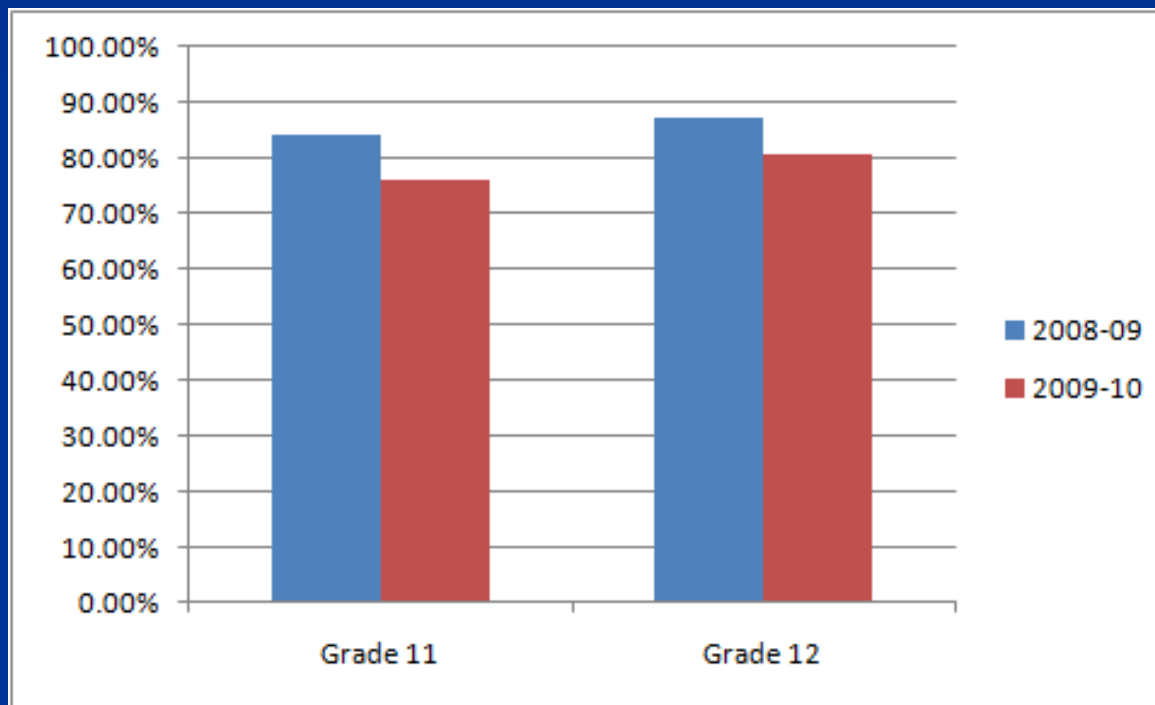
Gr. 11 and 12 HSGQE Cumulative Results - Reading



Gr. 11 and 12 HSGQE Cumulative Results - Writing



Gr. 11 and 12 HSGQE Cumulative Results - Mathematics



Dropout Rate

- AN/AI students have the highest dropout rate of all race/ethnicity groups reported in our school district
 - AN/AI preliminary dropout rate for 2009-10 was 6.93 percent compared to 3.59 percent for All students and 2.45 percent for White students

Dropout Rate Comparison to 2008-09 to 2009-10 School Year

Dropout Rate - PRELIMINARY

| | 08-09 | | 09-10* | | Percent Change |
|--|-----------------|-----------------|-----------------|-----------------|----------------|
| | Number Dropouts | Percent Dropout | Number Dropouts | Percent Dropout | |
| All Students | 793 | 3.40% | 810 | 3.59% | 5.75% |
| African-American/Black | 68 | 4.82% | 55 | 3.83% | -20.54% |
| Alaska Native/American Indian | 219 | 5.78% | 246 | 6.93% | 19.87% |
| Asian | 65 | 2.98% | 66 | 2.71% | -9.25% |
| Native Hawaiian/Other Pacific Islander | 38 | 4.83% | 48 | 5.94% | 22.99% |
| White | 293 | 2.40% | 279 | 2.45% | 2.12% |
| Hispanic | 72 | 3.81% | 75 | 4.10% | 7.55% |
| Multi-Ethnic (2 or More Races) | 38 | 3.43% | 41 | 3.64% | 6.09% |

*Preliminary

Graduation Rate

- Decrease in the graduation rate of AN/AI students from 55.93 percent in 2008-09 to 53.31 percent in 2009-10 (preliminary data)
- AN/AI students have the lowest graduation rate of all race/ethnicity groups reported

Graduation Rate Comparison to 2008-09 to 2009-10 School Year

| | 2008-09 | 2009-10* | Percent Change |
|--|-----------------|-----------------|----------------|
| | Graduation Rate | Graduation Rate | |
| All Students | 70.01% | 69.69% | -0.45% |
| African-American/Black | 61.97% | 58.50% | -5.60% |
| Alaska Native/American Indian | 55.93% | 53.31% | -4.68% |
| Asian | 68.66% | 73.26% | 6.70% |
| Native Hawaiian/Other Pacific Islander | 58.75% | 55.83% | -4.97% |
| White | 76.69% | 78.02% | 1.73% |
| Hispanic | 66.88% | 63.43% | -5.16% |
| Multi-Ethnic (2 or More Races) | 67.02% | 61.11% | -8.81% |

*Preliminary

Gifted Students

The number of gifted AN /AI students increased by 0.29 percentage points in 2009-10

Alaska Native/American Indian Gifted Students
2008-09 and 2009-10

| | Gifted Alaska Native/American Indian Students | Total Gifted Students | % of Total Gifted |
|---------|---|-----------------------|-------------------|
| 2009-10 | 324 | 3,375 | 9.60% |
| 2008-09 | 332 | 3,563 | 9.31% |

Mathematics Achievement

- There were more AN/AI students enrolled in grade 8 in than the previous year
- There was a higher percentage of AN/AI students who successfully completed Algebra I in grade 8 or earlier than the previous year

Mathematics Advancement - Alg. I by Gr. 8



| | Mathematics | | | | |
|--------------------------------------|----------------------|--------------------------|------------------------|--------------------------|----------------|
| | 2008-09 (Prior Year) | | 2009-10 (Current Year) | | Percent Change |
| | Number Enrolled | % Successfully Completed | Number Enrolled | % Successfully Completed | |
| Alaska Native/American Indian | 580 | 12.24% | 623 | 13.48% | 10.16% |

Achievement Gap SBAs Gr. 3-9

- Achievement gap in language arts decreased 1.58 percentage points from 22.25 percentage points in 2008-09 to 20.67 percentage points in 2009-10.
- Achievement gap in mathematics decreased 1.55 percentage points from 22.29 percentage points in 2008-09 to 20.74 percentage points in 2009-10.

Language Arts Achievement Gap SBAs Gr.3-10

| | Language Arts | | | | | | | |
|--------------------------------------|------------------------|---------------------------------------|-------------------------------------|------------------------|---------------------------------------|-------------------------------------|--|-----------------------|
| | 2008-09 (Current Year) | | | 2009-10 (Current Year) | | | Result | |
| | Percent Proficient | Percent Proficient for White Students | Achievement Gap (Percentage Points) | Percent Proficient | Percent Proficient for White Students | Achievement Gap (Percentage Points) | Percentage Point Change in Achievement Gap | Significant Decrease? |
| Alaska Native/American Indian | 65.04% | 87.29% | 22.25% | 67.82% | 88.49% | 20.67% | -1.58% | No |

Mathematics Achievement Gap SBAs

Gr.3-10

| | Mathematics | | | | | | | |
|-------------------------------|------------------------|---------------------------------------|-------------------------------------|------------------------|---------------------------------------|-------------------------------------|--|-----------------------|
| | 2008-09 (Current Year) | | | 2009-10 (Current Year) | | | Result | |
| | Percent Proficient | Percent Proficient for White Students | Achievement Gap (Percentage Points) | Percent Proficient | Percent Proficient for White Students | Achievement Gap (Percentage Points) | Percentage Point Change in Achievement Gap | Significant Decrease? |
| Alaska Native/American Indian | 58.20% | 80.49% | 22.29% | 61.60% | 82.34% | 20.74% | -1.55% | No |

Summary

- Participation rate in state assessments continues to be strong
- Gain in percent proficient on SBA reading
- Gain in percent proficient on SBA mathematics
- Loss in percent proficient on SBA writing
- Gain in percent proficient on SBA science
- Greatest gap in percent proficient between AN/AI and White students continues to be in the area of science

Summary - continued

- Gr. 10 HSGQE decreased in percent proficient in all three subtests
- Gr. 11 HSGQE cumulative passage rates lower than previous years for all three subtests
- Gr. 12 HSGQE cumulative passage lower for all three subtests compared to the previous year
- The preliminary dropout rate increased

Summary - continued

- The preliminary graduation rate decreased
- The AN/AI percentage of gifted students increased
- Percentage successfully completing Alg. I by Gr. 8 increased
- Achievement gap in language arts decreased
- Achievement gap in mathematics decreased

Assessment & Evaluation Department—742-4420

- Laurel Vorachek, Director
 - [Vorachek laurel@asdk12.org](mailto:Vorachek_laurel@asdk12.org)
- Xiaogeng Sun, Assistant Director
 - [Sun Xioageng@asdk12.org](mailto:Sun_Xioageng@asdk12.org)
- Kristine Stout, Coordinator of Program Evaluation
- Sharon Brewer, Testing Coordinator
- Regina Frazier, Administrative Assistant