



Colorado Measures of Academic Success (CMAS) 2024 State Achievement Results Science

Based on the 2020 Colorado Academic Standards

Interpretation Considerations

- Interpretation of school, district, and state results should be made with caution when participation rates are low and/or representativeness* is limited.
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*Representativeness: how well the demographics of the tested student population mirrored the demographics of the enrolled student population

Overall Results

| Report Category | Participation Information | | | Score Information | | Performance Level Information | | | | Percent Met or Exceeded Expectations | | |
|------------------------|-----------------------------|-------------------------|-------------------------|-------------------|--------------------|------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|------|------------------|
| | Number of Valid Scores 2024 | Participation Rate 2024 | Participation Rate 2023 | Mean Scale Score | Standard Deviation | Percent Partially Met Expectations | Percent Approached Expectations | Percent Met Expectations | Percent Exceeded Expectations | 2024 | 2023 | Change 2024-2023 |
| Science Overall | | | | | | | | | | | | |
| Grade 05 | 56,082 | 91.4 | 92.1 | 736 | 33 | 33.1 | 29.0 | 34.2 | 3.8 | 37.9 | 33.9 | 4.0 |
| Grade 08 | 49,908 | 77.8 | 77.8 | 731 | 34 | 37.7 | 30.0 | 31.7 | 0.5 | 32.2 | 31.3 | 0.9 |
| Grade 11 | 34,098 | 51.7 | 49.0 | 730 | 29 | 37.8 | 37.4 | 23.7 | 1.1 | 24.8 | 24.6 | 0.2 |

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Science Results by Gender

| Report Category | Participation Information | | | Score Information | | Performance Level Information | | | | Percent Met or Exceeded Expectations | | |
|-------------------------|-----------------------------|-------------------------|-------------------------|-------------------|--------------------|------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|------|------------------|
| | Number of Valid Scores 2024 | Participation Rate 2024 | Participation Rate 2023 | Mean Scale Score | Standard Deviation | Percent Partially Met Expectations | Percent Approached Expectations | Percent Met Expectations | Percent Exceeded Expectations | 2024 | 2023 | Change 2024-2023 |
| Science Grade 05 | | | | | | | | | | | | |
| Male | 28,632 | 91.2 | 91.9 | 736 | 34 | 33.6 | 28.2 | 34.2 | 4.0 | 38.2 | 35.6 | 2.6 |
| Female | 27,441 | 91.6 | 92.4 | 737 | 32 | 32.6 | 29.8 | 34.1 | 3.5 | 37.6 | 32.0 | 5.6 |
| Science Grade 08 | | | | | | | | | | | | |
| Male | 26,073 | 79.2 | 79.4 | 730 | 35 | 38.4 | 29.0 | 32.0 | 0.6 | 32.6 | 31.5 | 1.1 |
| Female | 23,821 | 76.4 | 76.2 | 731 | 33 | 37.0 | 31.2 | 31.4 | 0.4 | 31.8 | 31.1 | 0.7 |
| Science Grade 11 | | | | | | | | | | | | |
| Male | 18,058 | 53.8 | 51.2 | 730 | 31 | 37.1 | 35.6 | 25.9 | 1.4 | 27.3 | 27.0 | 0.3 |
| Female | 16,003 | 49.6 | 46.7 | 729 | 27 | 38.7 | 39.4 | 21.2 | 0.7 | 21.9 | 21.8 | 0.1 |

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Science Results by Race/Ethnicity

| Report Category | Participation Information | | | Score Information | | Performance Level Information | | | | Percent Met or Exceeded Expectations | | |
|----------------------------------|-----------------------------|-------------------------|-------------------------|-------------------|--------------------|------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|------|------------------|
| | Number of Valid Scores 2024 | Participation Rate 2024 | Participation Rate 2023 | Mean Scale Score | Standard Deviation | Percent Partially Met Expectations | Percent Approached Expectations | Percent Met Expectations | Percent Exceeded Expectations | 2024 | 2023 | Change 2024-2023 |
| Science Grade 05 | | | | | | | | | | | | |
| American Indian or Alaska Native | 374 | 93.3 | 92.8 | 720 | 32 | 53.7 | 25.9 | -- | -- | 20.3 | 17.3 | 3.0 |
| Asian | 2,094 | 95.0 | 95.3 | 748 | 34 | 20.5 | 26.0 | 45.7 | 7.9 | 53.5 | 45.3 | 8.2 |
| Black | 2,529 | 89.1 | 90.4 | 720 | 33 | 52.4 | 28.6 | 18.1 | 0.9 | 19.0 | 15.6 | 3.4 |
| Hispanic | 19,709 | 91.3 | 92.7 | 721 | 32 | 51.6 | 28.7 | 18.8 | 0.9 | 19.7 | 16.0 | 3.7 |
| White | 27,971 | 91.3 | 91.8 | 747 | 29 | 19.8 | 29.5 | 45.2 | 5.5 | 50.7 | 46.4 | 4.3 |
| Hawaiian/Pacific Islander | 210 | 89.4 | 96.2 | 719 | 32 | 53.8 | 27.6 | -- | -- | 18.6 | 14.9 | 3.7 |
| Two or More Races | 3,016 | 91.9 | 91.0 | 743 | 32 | 25.5 | 28.8 | 39.9 | 5.8 | 45.7 | 40.0 | 5.7 |
| Not Reported | 179 | 94.7 | 75.0 | 756 | 24 | 10.1 | 30.2 | -- | -- | 59.8 | -- | -- |
| Science Grade 08 | | | | | | | | | | | | |
| American Indian or Alaska Native | 324 | 79.0 | 81.3 | 716 | 32 | 59.6 | 23.8 | -- | -- | 16.7 | 16.8 | -0.1 |
| Asian | 1,653 | 85.3 | 82.8 | 745 | 32 | 22.0 | 27.3 | -- | -- | 50.6 | 51.0 | -0.4 |
| Black | 2,177 | 74.9 | 72.9 | 716 | 33 | 54.8 | 29.2 | -- | -- | 15.9 | 15.2 | 0.7 |
| Hispanic | 18,817 | 79.9 | 80.5 | 715 | 33 | 57.2 | 27.9 | 14.9 | 0.0 | 14.9 | 14.7 | 0.2 |
| White | 24,214 | 76.3 | 76.4 | 742 | 29 | 22.7 | 32.0 | 44.4 | 0.9 | 45.3 | 43.7 | 1.6 |
| Hawaiian/Pacific Islander | 168 | 80.8 | 80.1 | 712 | 34 | 60.1 | 26.2 | -- | -- | 13.7 | 20.9 | -7.2 |
| Two or More Races | 2,430 | 76.1 | 73.5 | 739 | 31 | 28.3 | 30.6 | 40.2 | 0.9 | 41.1 | 38.1 | 3.0 |



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Science Results by Race/Ethnicity

| Report Category | Participation Information | | | Score Information | | Performance Level Information | | | | Percent Met or Exceeded Expectations | | |
|----------------------------------|-----------------------------|-------------------------|-------------------------|-------------------|--------------------|------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|------|------------------|
| | Number of Valid Scores 2024 | Participation Rate 2024 | Participation Rate 2023 | Mean Scale Score | Standard Deviation | Percent Partially Met Expectations | Percent Approached Expectations | Percent Met Expectations | Percent Exceeded Expectations | 2024 | 2023 | Change 2024-2023 |
| Not Reported | 125 | 77.2 | 83.3 | 747 | 26 | 16.0 | 33.6 | -- | -- | 50.4 | -- | -- |
| Science Grade 11 | | | | | | | | | | | | |
| American Indian or Alaska Native | 235 | 57.9 | 55.5 | 722 | 28 | 49.4 | 35.7 | -- | -- | 14.9 | 12.6 | 2.3 |
| Asian | 970 | 44.5 | 44.4 | 738 | 30 | 28.2 | 35.1 | 33.1 | 3.6 | 36.7 | 35.2 | 1.5 |
| Black | 1,617 | 54.6 | 51.3 | 716 | 30 | 58.5 | 31.4 | 9.9 | 0.2 | 10.1 | 10.8 | -0.7 |
| Hispanic | 14,539 | 61.2 | 58.5 | 720 | 27 | 52.9 | 35.9 | 10.9 | 0.2 | 11.1 | 10.3 | 0.8 |
| White | 15,079 | 45.4 | 43.1 | 740 | 26 | 22.2 | 39.5 | 36.5 | 1.8 | 38.3 | 37.5 | 0.8 |
| Hawaiian/Pacific Islander | 115 | 59.6 | 53.8 | 718 | 30 | 53.9 | 33.0 | -- | -- | 13.0 | 12.9 | 0.1 |
| Two or More Races | 1,459 | 47.5 | 45.4 | 734 | 29 | 30.5 | 40.2 | 27.6 | 1.7 | 29.3 | 32.1 | -2.8 |
| Not Reported | 84 | 72.4 | 70.0 | 762 | 23 | 6.0 | 19.0 | -- | -- | 75.0 | -- | -- |

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Science Results by Free/Reduced Lunch Status

| Report Category | Participation Information | | | Score Information | | Performance Level Information | | | | Percent Met or Exceeded Expectations | | |
|---------------------------------|-----------------------------|-------------------------|-------------------------|-------------------|--------------------|------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|------|------------------|
| | Number of Valid Scores 2024 | Participation Rate 2024 | Participation Rate 2023 | Mean Scale Score | Standard Deviation | Percent Partially Met Expectations | Percent Approached Expectations | Percent Met Expectations | Percent Exceeded Expectations | 2024 | 2023 | Change 2024-2023 |
| Science Grade 05 | | | | | | | | | | | | |
| Free/Reduced Lunch Eligible | 25,579 | 90.9 | 91.8 | 723 | 32 | 49.7 | 29.7 | 19.8 | 0.8 | 20.6 | 15.0 | 5.6 |
| Not Free/Reduced Lunch Eligible | 30,503 | 91.8 | 92.4 | 748 | 30 | 19.2 | 28.4 | 46.2 | 6.2 | 52.4 | 47.0 | 5.4 |
| Science Grade 08 | | | | | | | | | | | | |
| Free/Reduced Lunch Eligible | 22,675 | 78.3 | 79.0 | 716 | 33 | 55.4 | 28.9 | 15.7 | 0.0 | 15.7 | 14.3 | 1.4 |
| Not Free/Reduced Lunch Eligible | 27,233 | 77.4 | 77.1 | 742 | 30 | 23.0 | 31.0 | 45.1 | 0.9 | 46.0 | 42.9 | 3.1 |
| Science Grade 11 | | | | | | | | | | | | |
| Free/Reduced Lunch Eligible | 15,937 | 59.7 | 58.5 | 721 | 28 | 51.0 | 36.3 | 12.4 | 0.3 | 12.7 | 10.9 | 1.8 |
| Not Free/Reduced Lunch Eligible | 18,161 | 46.3 | 44.4 | 738 | 28 | 26.2 | 38.3 | 33.6 | 1.9 | 35.4 | 33.4 | 2.0 |

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Note: Free and Reduced Lunch data collection and reporting were less precise for spring 2024 assessments than historically. These data should be used with caution.



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Science Results by Special Programs Status

| Report Category | Participation Information | | | Score Information | | Performance Level Information | | | | Percent Met or Exceeded Expectations | | |
|-------------------------|-----------------------------|-------------------------|-------------------------|-------------------|--------------------|------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|------|------------------|
| | Number of Valid Scores 2024 | Participation Rate 2024 | Participation Rate 2023 | Mean Scale Score | Standard Deviation | Percent Partially Met Expectations | Percent Approached Expectations | Percent Met Expectations | Percent Exceeded Expectations | 2024 | 2023 | Change 2024-2023 |
| Science Grade 05 | | | | | | | | | | | | |
| IEP | 7,257 | 82.9 | 83.1 | 706 | 33 | 71.8 | 18.4 | 9.2 | 0.6 | 9.8 | 9.2 | 0.6 |
| No IEP | 48,825 | 92.8 | 93.6 | 741 | 31 | 27.4 | 30.5 | 37.9 | 4.2 | 42.1 | 37.4 | 4.7 |
| Title I | 21,013 | 91.8 | 92.9 | 723 | 32 | 49.7 | 29.1 | 20.0 | 1.1 | 21.2 | 17.5 | 3.7 |
| Not Title I | 35,069 | 91.2 | 91.7 | 745 | 31 | 23.2 | 28.9 | 42.6 | 5.3 | 48.0 | 43.7 | 4.3 |
| Science Grade 08 | | | | | | | | | | | | |
| IEP | 5,330 | 71.4 | 72.2 | 701 | 32 | 75.4 | 18.9 | -- | -- | 5.7 | 6.0 | -0.3 |
| No IEP | 44,578 | 78.7 | 78.6 | 734 | 32 | 33.2 | 31.4 | -- | -- | 35.4 | 34.3 | 1.1 |
| Title I | 12,553 | 84.0 | 86.0 | 713 | 33 | 60.3 | 26.0 | 13.6 | 0.1 | 13.7 | 14.4 | -0.7 |
| Not Title I | 37,355 | 76.0 | 75.7 | 737 | 32 | 30.1 | 31.4 | 37.8 | 0.7 | 38.5 | 36.4 | 2.1 |
| Science Grade 11 | | | | | | | | | | | | |
| IEP | 3,085 | 50.7 | 47.8 | 707 | 29 | 71.9 | 22.7 | 5.2 | 0.1 | 5.3 | 4.9 | 0.4 |
| No IEP | 31,013 | 51.9 | 49.1 | 732 | 28 | 34.4 | 38.9 | 25.5 | 1.2 | 26.7 | 26.5 | 0.2 |
| Title I | 6,150 | 77.8 | 76.8 | 718 | 28 | 55.4 | 34.2 | 10.2 | 0.3 | 10.4 | 10.2 | 0.2 |
| Not Title I | 27,948 | 48.2 | 45.6 | 733 | 29 | 33.9 | 38.1 | 26.7 | 1.3 | 28.0 | 27.5 | 0.5 |

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Science Results by Language Proficiency

| Report Category | Participation Information | | | Score Information | | Performance Level Information | | | | Percent Met or Exceeded Expectations | | |
|---|-----------------------------|-------------------------|-------------------------|-------------------|--------------------|------------------------------------|---------------------------------|--------------------------|-------------------------------|--------------------------------------|------|------------------|
| | Number of Valid Scores 2024 | Participation Rate 2024 | Participation Rate 2023 | Mean Scale Score | Standard Deviation | Percent Partially Met Expectations | Percent Approached Expectations | Percent Met Expectations | Percent Exceeded Expectations | 2024 | 2023 | Change 2024-2023 |
| Science Grade 05 | | | | | | | | | | | | |
| English Language Proficiency: (NEP/LEP) | 7,027 | 88.7 | 92.5 | 702 | 28 | 78.4 | 17.9 | 3.7 | 0.0 | 3.7 | 2.8 | 0.9 |
| NEP (Not English Proficient) | 1,869 | 76.3 | 85.3 | 687 | 28 | 89.4 | 8.8 | -- | -- | 1.8 | 1.5 | 0.3 |
| LEP (Limited English Proficient) | 5,158 | 94.3 | 94.7 | 707 | 26 | 74.4 | 21.3 | -- | -- | 4.4 | 3.2 | 1.2 |
| English Language Proficiency: (Not NEP/LEP) | 49,055 | 91.8 | 92.1 | 741 | 31 | 26.6 | 30.5 | 38.5 | 4.3 | 42.8 | 38.0 | 4.8 |
| FEP (Fluent English Proficient), FELL (Former English Language Learner) | 3,787 | 96.3 | 96.3 | 740 | 25 | 24.5 | 39.1 | 34.5 | 1.9 | 36.3 | 27.0 | 9.3 |
| PHLOTE, NA, Not Reported | 45,268 | 91.4 | 91.7 | 741 | 31 | 26.8 | 29.8 | 38.9 | 4.5 | 43.4 | 39.0 | 4.4 |
| Science Grade 08 | | | | | | | | | | | | |
| English Language Proficiency: (NEP/LEP) | 5,538 | 82.6 | 83.7 | 694 | 29 | 84.7 | 13.7 | -- | -- | 1.6 | 1.8 | -0.2 |
| NEP (Not English Proficient) | 1,803 | 77.5 | 84.0 | 682 | 28 | 92.2 | 6.7 | -- | -- | 1.1 | 1.4 | -0.3 |
| LEP (Limited English Proficient) | 3,735 | 85.3 | 83.7 | 700 | 27 | 81.1 | 17.1 | -- | -- | 1.8 | 2.0 | -0.2 |
| English Language Proficiency: (Not NEP/LEP) | 44,370 | 77.3 | 77.3 | 735 | 31 | 31.9 | 32.1 | -- | -- | 36.1 | 34.5 | 1.6 |
| FEP (Fluent English Proficient), FELL (Former English Language Learner) | 5,570 | 85.6 | 85.5 | 728 | 29 | 40.6 | 36.4 | 22.8 | 0.2 | 23.0 | 21.2 | 1.8 |
| PHLOTE, NA, Not Reported | 38,800 | 76.2 | 76.1 | 736 | 32 | 30.6 | 31.4 | -- | -- | 37.9 | 36.5 | 1.4 |
| Science Grade 11 | | | | | | | | | | | | |
| English Language Proficiency: (NEP/LEP) | 3,282 | 65.1 | 64.5 | 697 | 26 | 88.0 | 11.5 | -- | -- | 0.5 | 0.4 | 0.1 |
| NEP (Not English Proficient) | 1,023 | 62.8 | 65.0 | 687 | 26 | 93.5 | -- | -- | -- | -- | -- | -- |
| LEP (Limited English Proficient) | 2,259 | 66.2 | 64.3 | 702 | 24 | 85.5 | -- | -- | -- | -- | -- | -- |
| English Language Proficiency: (Not NEP/LEP) | 30,816 | 50.6 | 47.9 | 733 | 27 | 32.4 | 40.2 | -- | -- | 27.4 | 26.9 | 0.5 |
| FEP (Fluent English Proficient), FELL (Former English Language Learner) | 5,341 | 64.6 | 60.9 | 727 | 24 | 42.0 | 44.0 | 13.5 | 0.5 | 14.0 | 13.3 | 0.7 |

| | | | | | | | | | | | | |
|--|--------|------|------|-----|----|------|------|----|----|------|------|-----|
| PHLOTE, NA, Not Reported | 25,475 | 48.5 | 45.7 | 735 | 28 | 30.4 | 39.4 | -- | -- | 30.2 | 29.9 | 0.3 |
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Science Results by Migrant Status

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| Science Grade 05 | | | | | | | | | | | | |
| Migrant | 209 | 90.5 | 92.5 | 707 | 32 | 68.9 | 23.4 | -- | -- | 7.7 | 5.1 | 2.6 |
| Not Migrant | 55,873 | 91.4 | 92.1 | 736 | 33 | 33.0 | 29.0 | -- | -- | 38.0 | 34.0 | 4.0 |
| Science Grade 08 | | | | | | | | | | | | |
| Migrant | 175 | 78.8 | 82.5 | 700 | 34 | 72.6 | 18.9 | -- | -- | 8.6 | 7.1 | 1.5 |
| Not Migrant | 49,733 | 77.8 | 77.8 | 731 | 34 | 37.6 | 30.1 | -- | -- | 32.3 | 31.4 | 0.9 |
| Science Grade 11 | | | | | | | | | | | | |
| Migrant | 140 | 80.5 | 68.9 | 707 | 29 | 75.0 | 20.0 | -- | -- | 5.0 | 7.5 | -2.5 |
| Not Migrant | 33,958 | 51.7 | 48.9 | 730 | 29 | 37.6 | 37.5 | -- | -- | 24.9 | 24.6 | 0.3 |

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Science Results by Gifted and Talented Status

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| Science Grade 05 | | | | | | | | | | | | |
| Gifted and Talented | 6,103 | 96.1 | 95.8 | 774 | 21 | 2.1 | 8.7 | 66.0 | 23.3 | 89.2 | 85.9 | 3.3 |
| Not Gifted and Talented | 49,979 | 90.9 | 91.7 | 732 | 31 | 36.9 | 31.4 | 30.3 | 1.4 | 31.7 | 27.8 | 3.9 |
| Science Grade 08 | | | | | | | | | | | | |
| Gifted and Talented | 6,260 | 84.8 | 84.5 | 765 | 21 | 4.2 | 14.5 | 77.9 | 3.5 | 81.4 | 81.8 | -0.4 |
| Not Gifted and Talented | 43,648 | 76.9 | 77.0 | 726 | 32 | 42.5 | 32.3 | 25.1 | 0.1 | 25.2 | 24.2 | 1.0 |
| Science Grade 11 | | | | | | | | | | | | |
| Gifted and Talented | 3,580 | 50.7 | 46.2 | 759 | 21 | 4.6 | 21.7 | 67.0 | 6.7 | 73.7 | 74.4 | -0.7 |
| Not Gifted and Talented | 30,518 | 51.9 | 49.3 | 726 | 28 | 41.7 | 39.3 | 18.6 | 0.4 | 19.1 | 18.9 | 0.2 |

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