



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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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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	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												
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

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												
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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