

Spring 2021 State Assessment Results

Interpretation Considerations



COVID-19 Disrupted Learning for Many Students

The COVID-19 pandemic had an impact on many aspects of education last year, including reducing or disrupting learning opportunities for some students, schools and districts. In addition, students across Colorado had to adapt to a variety of learning models over the course of the year, including in-person, remote and hybrid instruction. Due to reduced in-person instructional time, some districts may have had to adjust the content for students, and it's likely the impact of these learning disruptions was uneven within districts and across the state.

2021 State Assessment Results Provide Insight into Individual Student Learning

Spring 2021 state tests and expectations were consistent with tests from previous years. Results for individual students who had a relatively typical testing experience may be able to be interpreted with reasonable confidence.

State assessments provide point-in-time snapshots of what individual students know. It is important to take this year's circumstances and other available information about a student's learning into consideration when reviewing results. In addition, any significant difference in test administration conditions from past years should be considered on an individual basis.

Participation Information is Critical to Interpretation

Participation information must be reviewed and taken into consideration thoughtfully when interpreting 2021 district and school results. This year's participation rates for districts, schools and student groups are significantly lower overall than in past years. As participation rates decrease and vary across student, school and district groups, challenges with interpreting results will increase. Depending on the specific school or district, some student groups will be overrepresented in the results and others may be underrepresented. Participation rates and how well the students who tested reflect the district/school as a whole vary greatly across the state this year. Participation information will indicate that in some cases, conclusions should be drawn with caution or completely avoided. Due to these factors and many more challenges experienced during the pandemic, for some districts, schools and student groups, this year's data will not support all of the cross-state comparisons and uses made with prior years' data. However, where appropriate, this year's results can be used as a temperature check to better address and track future COVID-19 school recovery efforts.



2021 SAT State Achievement Results

"Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Overall Results

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
Valid records	51155	79.5	26	5

-- The value for this cell is not displayed in order to protect student privacy.



2021 SAT State Achievement Results "Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Results by Gender

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
Male	25,448	78.5	26	6
Female	25,704	80.5	26	5
Not Reported	< 16	--	--	--

-- The value for this cell is not displayed in order to protect student privacy.



2021 SAT State Achievement Results "Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Results by Race/Ethnicity

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
American Indian or Alaska Native	300	67.3	23	5
Asian	1,939	88.5	28	6
Black	1,936	72.2	23	5
Hispanic	15,806	73.4	23	5
White	28,966	83.6	27	5
Hawaiian/Pacific Islander	109	64.5	24	6
Two or More Races	1,997	78.3	27	5
Not Reported	102	82.9	21	5

-- The value for this cell is not displayed in order to protect student privacy.



2021 SAT State Achievement Results "Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Results by Free/Reduced Lunch Status

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
Free/Reduced Lunch Eligible	13856	70.4	23	5
Not Free/Reduced Lunch Eligible	37299	83.5	27	5

- - The value for this cell is not displayed in order to protect student privacy.



2021 SAT State Achievement Results "Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Results by Special Programs Status

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
IEP	3284	63.3	21	4
No IEP	47871	80.9	26	5
Title I	4706	70.7	23	5
Not Title I	46449	80.5	26	5

- - The value for this cell is not displayed in order to protect student privacy.



2021 SAT State Achievement Results "Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Results by Language Proficiency

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
English Learner (EL)	2447	62.6	19	3
EL: NEP (Not English Proficient)	447	51.6	19	3
EL: LEP (Limited English Proficient)	2000	65.7	19	3
Not English Learner (Not EL)	48708	80.6	26	5
Not EL: FEP (Fluent English Proficient), FELL (Former English Language Learner)	7127	82.5	24	5
Not EL: PHLOTE, NA, Not Reported	41581	80.3	27	5

- - The value for this cell is not displayed in order to protect student privacy.



2021 SAT State Achievement Results "Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Results by Migrant Status

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
Migrant	145	73.6	20	4
Not Migrant	51010	79.5	26	5

-- The value for this cell is not displayed in order to protect student privacy.



2021 SAT State Achievement Results "Analysis in Science"

Interpretation Considerations

As part of Colorado's 2021 federal assessment waiver, the SAT "Analysis in Science" score is provided as a one-year replacement of the CMAS Science assessment in grade 11 to provide an indicator of achievement in high school science. The SAT Analysis in Science score is based on selected questions in the Reading, Writing and Language, and Mathematics tests and is not a separate section or stand-alone component of the SAT. Scores range between 10 - 40 and are intended to provide an indicator regarding how well students use their skills to analyze texts and solve problems in the area of science. Test items used to create this score do not cover the entire depth or breadth of the high school Colorado Academic Standards in the area of science; this score provides an indicator of student literacy and math skills within a science context.

Results by Gifted and Talented Status

Report Category	Participation Information		"Analysis in Science"	
	Number of Valid Scores	Participation Rate	Mean Score	Standard Deviation
SAT Grade 11				
Gifted and Talented	6128	91.5	31	4
Not Gifted and Talented	45027	78.1	25	5

-- The value for this cell is not displayed in order to protect student privacy.