2022 National Assessment of Educational Progress (NAEP)

Reading Grade 4 Results Graphics

NAEP 2022 Reading Grade 4: Average Scale Score

2022 Colorado average scale score (0–500)	1 jurisdiction ↑ performed significantly higher	13 jurisdictions ◆ not significantly different	37 jurisdictions ↓ performed significantly lower	1 jurisdiction ⊘ no assessment / data not available
CO 223				

Reading, Grade 4
Difference in average scale scores between all jurisdictions and Colorado, for All students [TOTAL], 2022

The map compares Colorado 4th graders average scale score on the NAEP 2022 Reading assessment to the other 49 states, the District of Columbia and the Department of Defense schools. Colorado, which is shaded green, is the focal state. States shaded light blue scored lower than Colorado. Dark-blue shaded states scored higher than Colorado and grey-shaded states scored the same as Colorado. Because NAEP results are based on samples, there is a margin of error associated with each score or percentage. Therefore, only those differences in scores or percentages that meet NAEP's standards for statistical significance are reported as higher or lower.
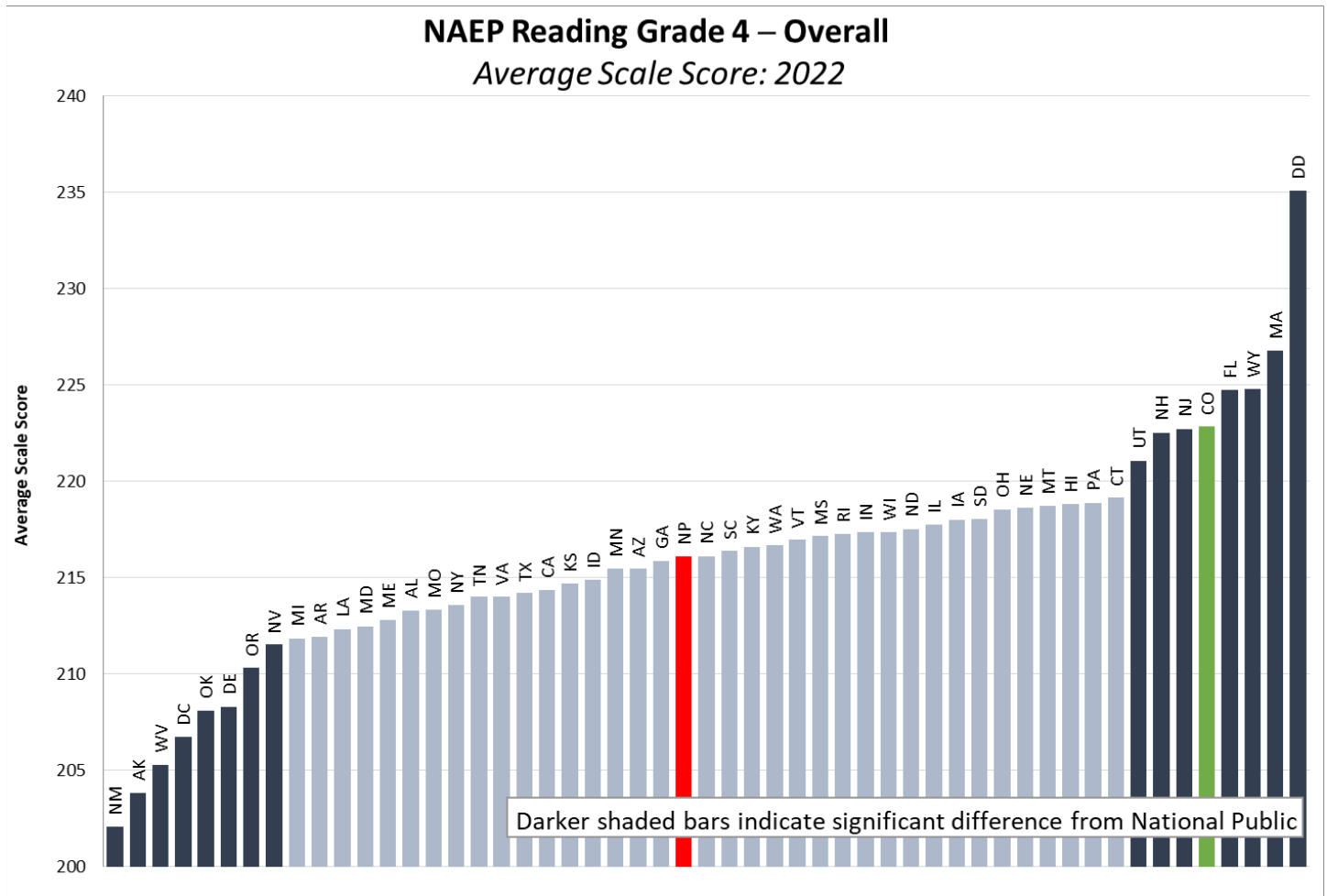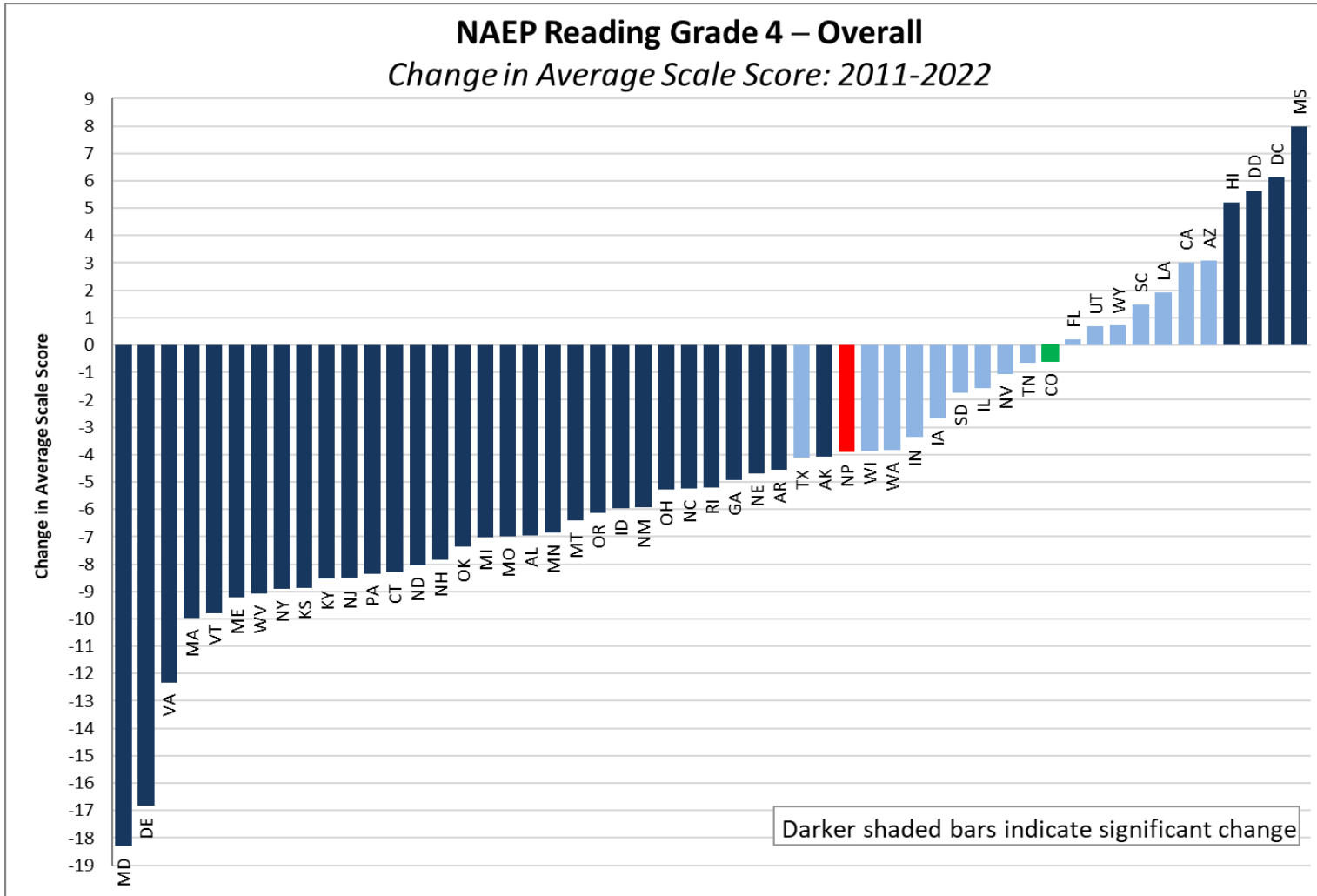
National NAEP Reading Grade 4 Average Scale Scores

Using the average scale score on the NAEP 2022 Reading assessment for each state, this bar graph compares Colorado 4th graders with the other 49 states, the District of Columbia and the Department of Defense schools. The red bar indicates the National Public average. The green bar represents Colorado. Darker shaded bars indicate significant difference from National Public average.
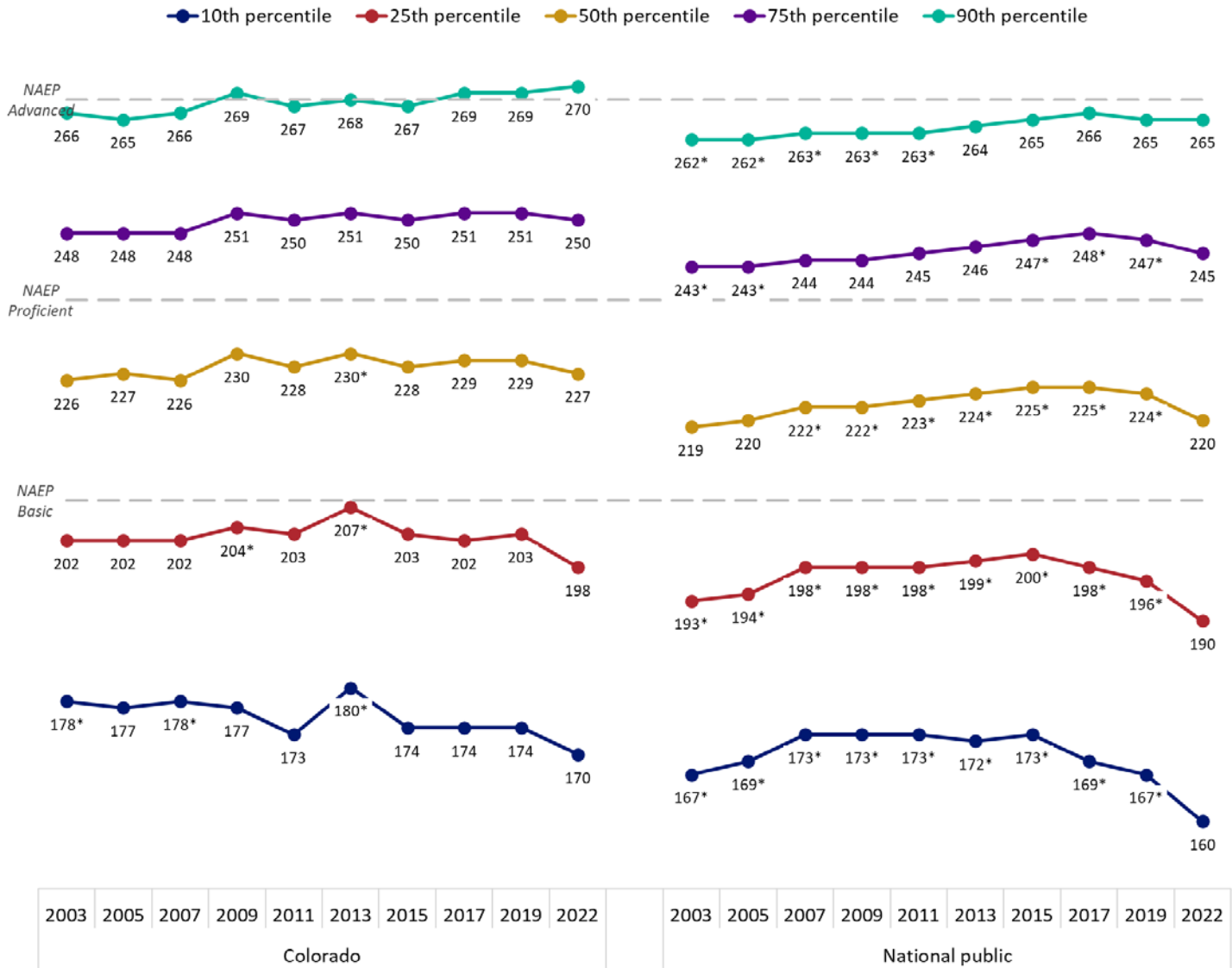
National Change in NAEP Grade 4 Reading Scale Scores Over Ten Years

NAEP Reading Grade 4 – Overall
Change in Average Scale Score: 2011-2022

Darker shaded bars indicate significant change

Using the average scale score on the NAEP 2022 Reading assessment for each state, this bar graph compares Colorado 4th graders with the other 49 states, the District of Columbia and the Department of Defense schools. The red bar indicates the National Public average. The green bar represents Colorado. Darker shaded bars indicate significant difference from National Public average.

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Colorado vs National Public Average Scale Score by Percentiles 2003-2022

Trend in percentile scores for Colorado and National public

- 10th percentile
- 25th percentile
- 50th percentile
- 75th percentile
- 90th percentile

NAEP Advanced

Colorado 90th percentile: 266, 265, 266, 269, 267, 268, 267, 269, 269, 270
National public 90th percentile: 262*, 262*, 263*, 263*, 263*, 264, 265, 266, 265, 265

Colorado 75th percentile: 248, 248, 248, 251, 250, 251, 250, 251, 251, 250
National public 75th percentile: 243*, 243*, 244, 244, 245, 246, 247*, 248*, 247*, 245

NAEP Proficient

Colorado 50th percentile: 226, 227, 226, 230, 228, 230*, 228, 229, 229, 227
National public 50th percentile: 219, 220, 222*, 222*, 223*, 224*, 225*, 225*, 224*, 220

NAEP Basic

Colorado 25th percentile: 202, 202, 202, 204*, 203, 207*, 203, 202, 203, 198
National public 25th percentile: 193*, 194*, 198*, 198*, 198*, 199*, 200*, 198*, 196*, 190

Colorado 10th percentile: 178*, 177, 178*, 177, 173, 180*, 174, 174, 174, 170
National public 10th percentile: 167*, 169*, 173*, 173*, 173*, 172*, 173*, 169*, 167*, 160

| 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |

Colorado

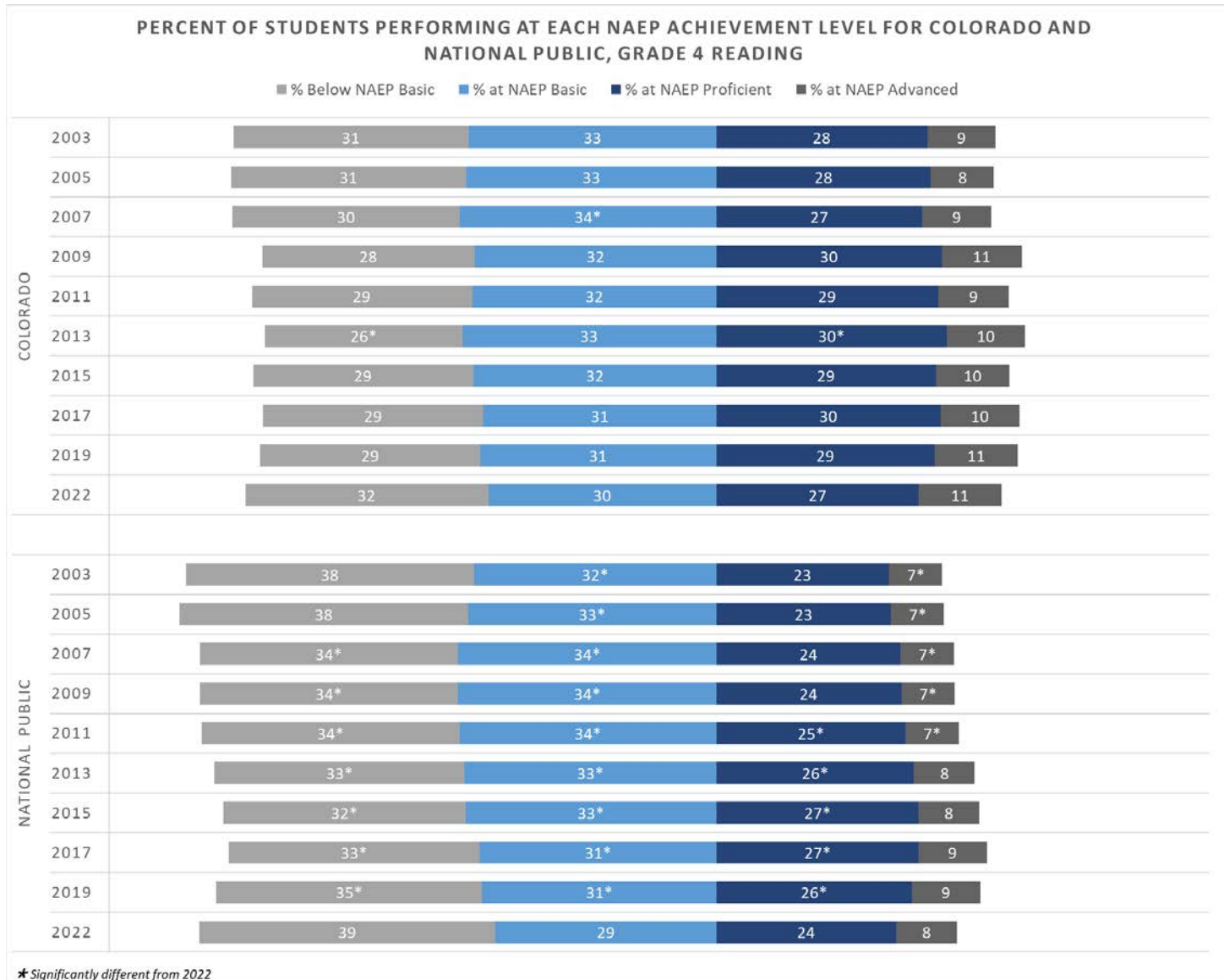| 2003 | 2005 | 2007 | 2009 | 2011 | 2013 | 2015 | 2017 | 2019 | 2022 |

National public

✱ *Significantly different from 2022*
Note: the NAEP Grade 4 Reading scale ranges from 0 to 500

The line charts above represent average scale score on the 2022 NAEP Grade 4 Reading assessment seperated into the 10th, 25th, 50th, 75th, and 90th percentiles for each Colorado and National Public school students extending back to 2003. The dashed lines represents the 2022 NAEP Grade 4 Reading NAEP basic, proficent, and advanced achievement levels.
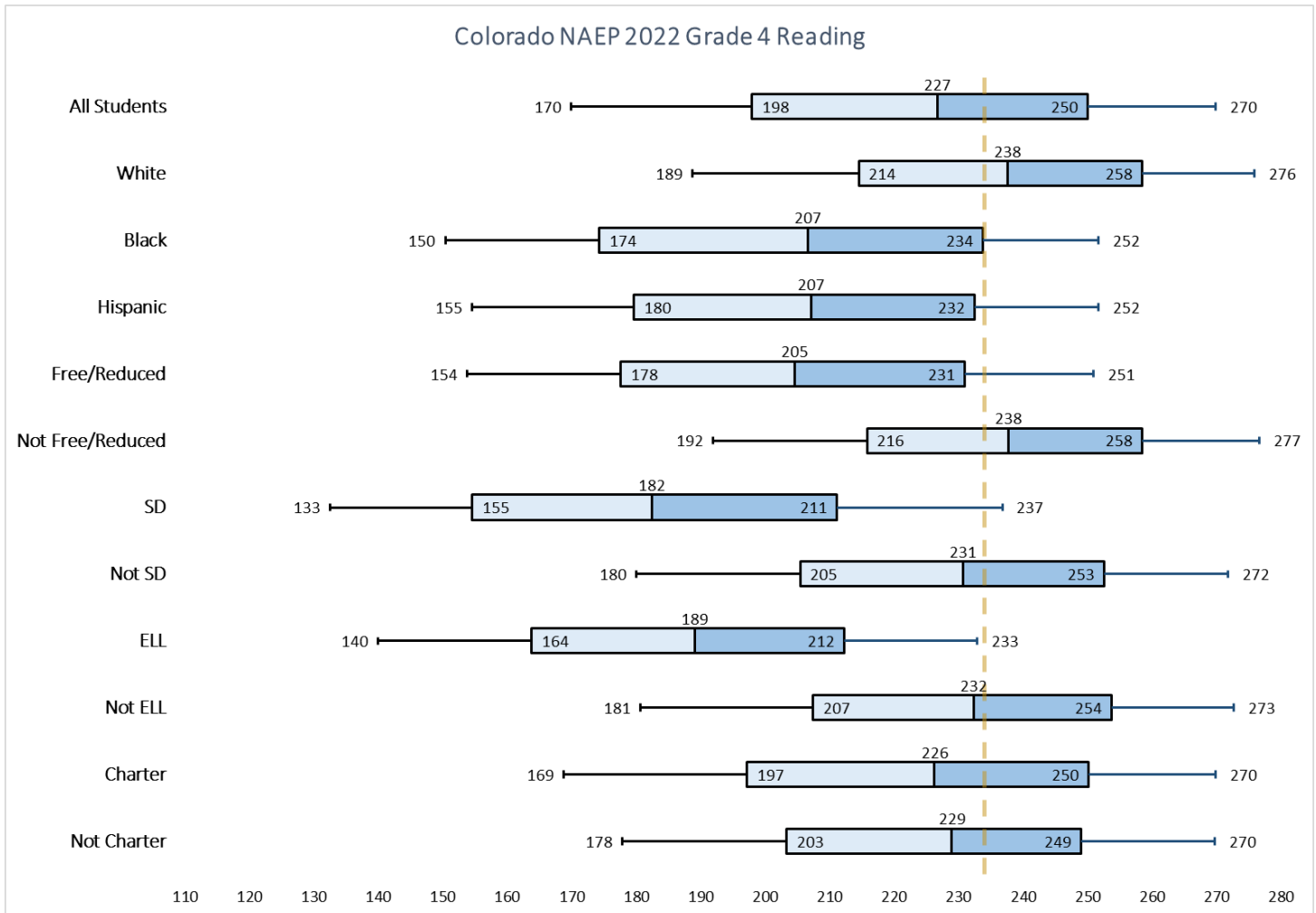
Change in NAEP Reading Grade 4 Achievement Levels Over Time

PERCENT OF STUDENTS PERFORMING AT EACH NAEP ACHIEVEMENT LEVEL FOR COLORADO AND NATIONAL PUBLIC, GRADE 4 READING

■ % Below NAEP Basic   ■ % at NAEP Basic   ■ % at NAEP Proficient   ■ % at NAEP Advanced

COLORADO

Year	% Below NAEP Basic	% at NAEP Basic	% at NAEP Proficient	% at NAEP Advanced
2003	31	33	28	9
2005	31	33	28	8
2007	30	34*	27	9
2009	28	32	30	11
2011	29	32	29	9
2013	26*	33	30*	10
2015	29	32	29	10
2017	29	31	30	10
2019	29	31	29	11
2022	32	30	27	11

NATIONAL PUBLIC

Year	% Below NAEP Basic	% at NAEP Basic	% at NAEP Proficient	% at NAEP Advanced
2003	38	32*	23	7*
2005	38	33*	23	7*
2007	34*	34*	24	7*
2009	34*	34*	24	7*
2011	34*	34*	25*	7*
2013	33*	33*	26*	8
2015	32*	33*	27*	8
2017	33*	31*	27*	9
2019	35*	31*	26*	9
2022	39	29	24	8

★ *Significantly different from 2022*

The bar chart above compares the percentages at each NAEP Reading achievement level for 4th graders in Colorado and National Public in 2003 through 2022. Dark gray represents the percent of students scoring in the advanced achievement level. Navy represents the percent of students scoring in the proficient achievement level. Light blue represents the percent of students scoring in the basic achievement level. Light gray represents the percent of students that scored below the basic achievement level.

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2022 Colorado NAEP Reading Grade 4 Reading Scale Scores
Percentiles by Subgroups

Colorado NAEP 2022 Grade 4 Reading

Subgroup	10th	25th	50th	75th	90th
All Students	170	198	227	250	270
White	189	214	238	258	276
Black	150	174	207	234	252
Hispanic	155	180	207	232	252
Free/Reduced	154	178	205	231	251
Not Free/Reduced	192	216	238	258	277
SD	133	155	182	211	237
Not SD	180	205	231	253	272
ELL	140	164	189	212	233
Not ELL	181	207	232	254	273
Charter	169	197	226	250	270
Not Charter	178	203	229	249	270

The horizontal box plots above represent average scale score on the 2022 NAEP Grade 4 Reading assessment seperated into the 10th, 25th, 50th, 75th, and 90th percentiles for each Colorado subgroup. The dashed orange line represents the 2022 NAEP Grade 4 Reading NAEP proficent achievement level scale score of 238.

Colorado NAEP Reading Grade 4 Black / White Gap

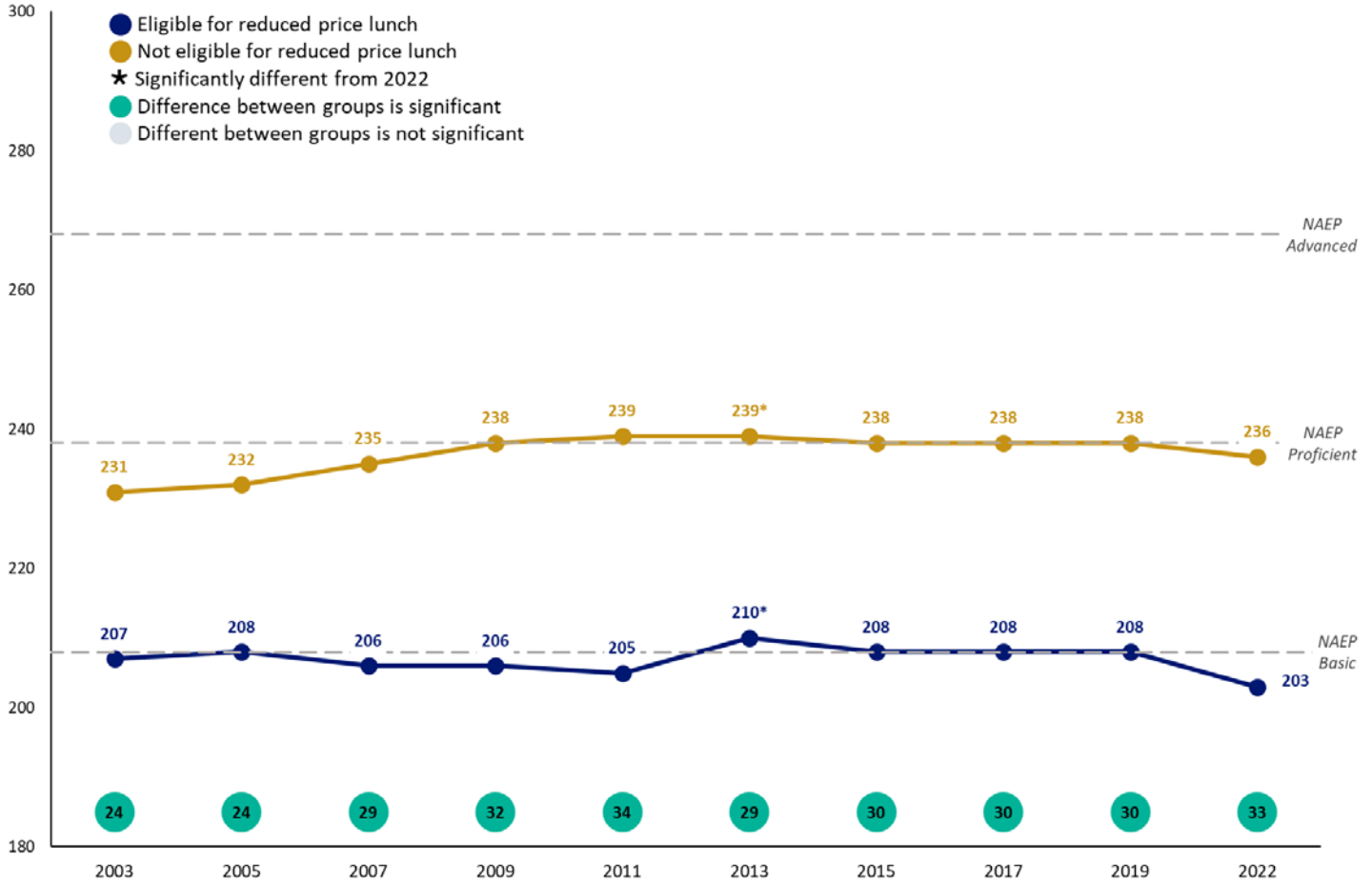**Trend in NAEP average scores and Black/White score gaps for students in Colorado**
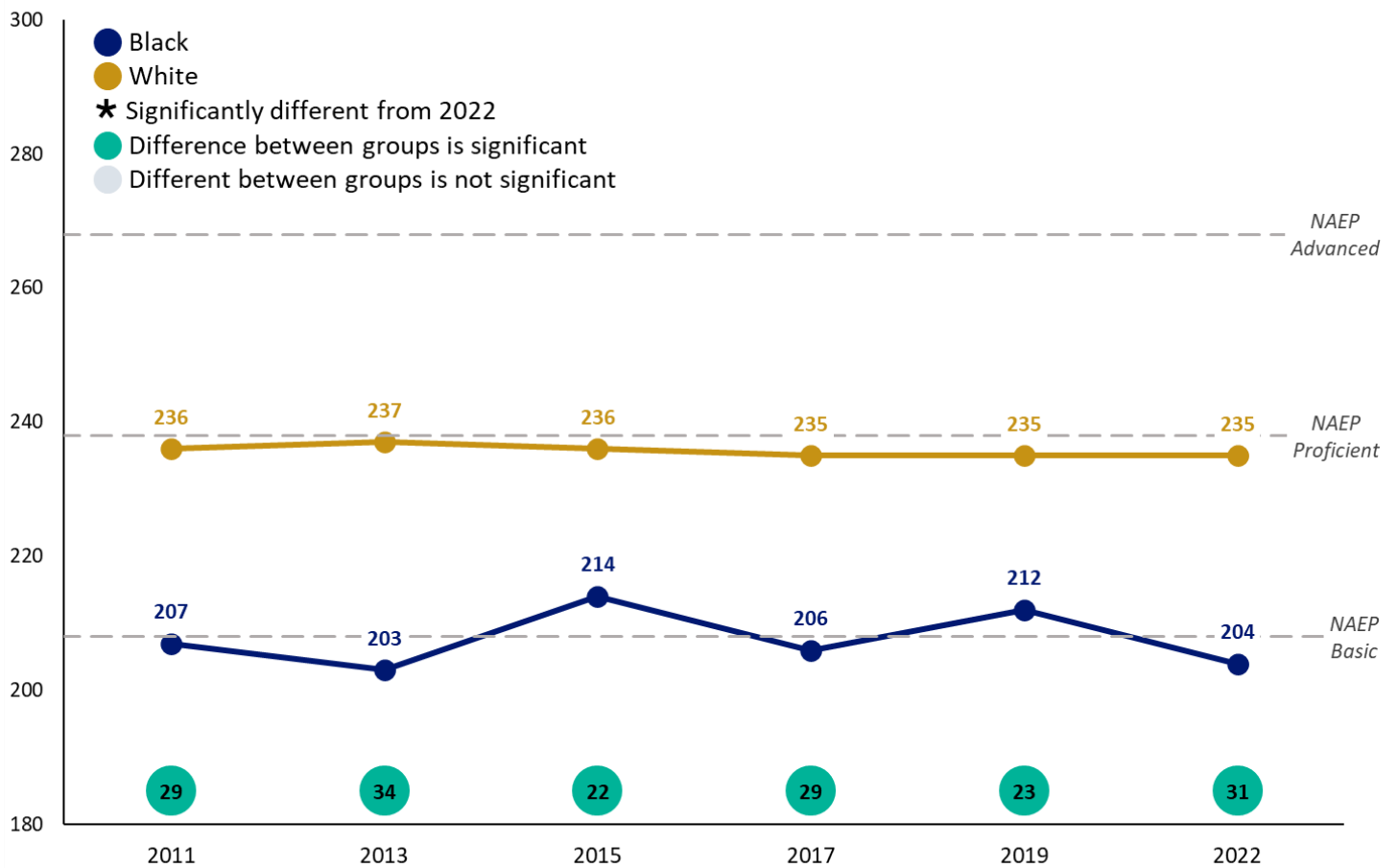
Note: The NAEP Grade 4 Reading scale is from 0 to 500

This is a comparison of Colorado 4th grade student subgroups using the average scale scores on the NAEP Reading assessment extending back to 2011. The gold line represents White student 4th grade average scale scores while the blue line represents Black student 4th grade average scale scores. The green dots represent the score gaps between the student subgroups.

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Colorado NAEP Reading Grade 4 Hispanic / White Gap

Trend in NAEP average scores and Hispanic/White score gaps for students in Colorado
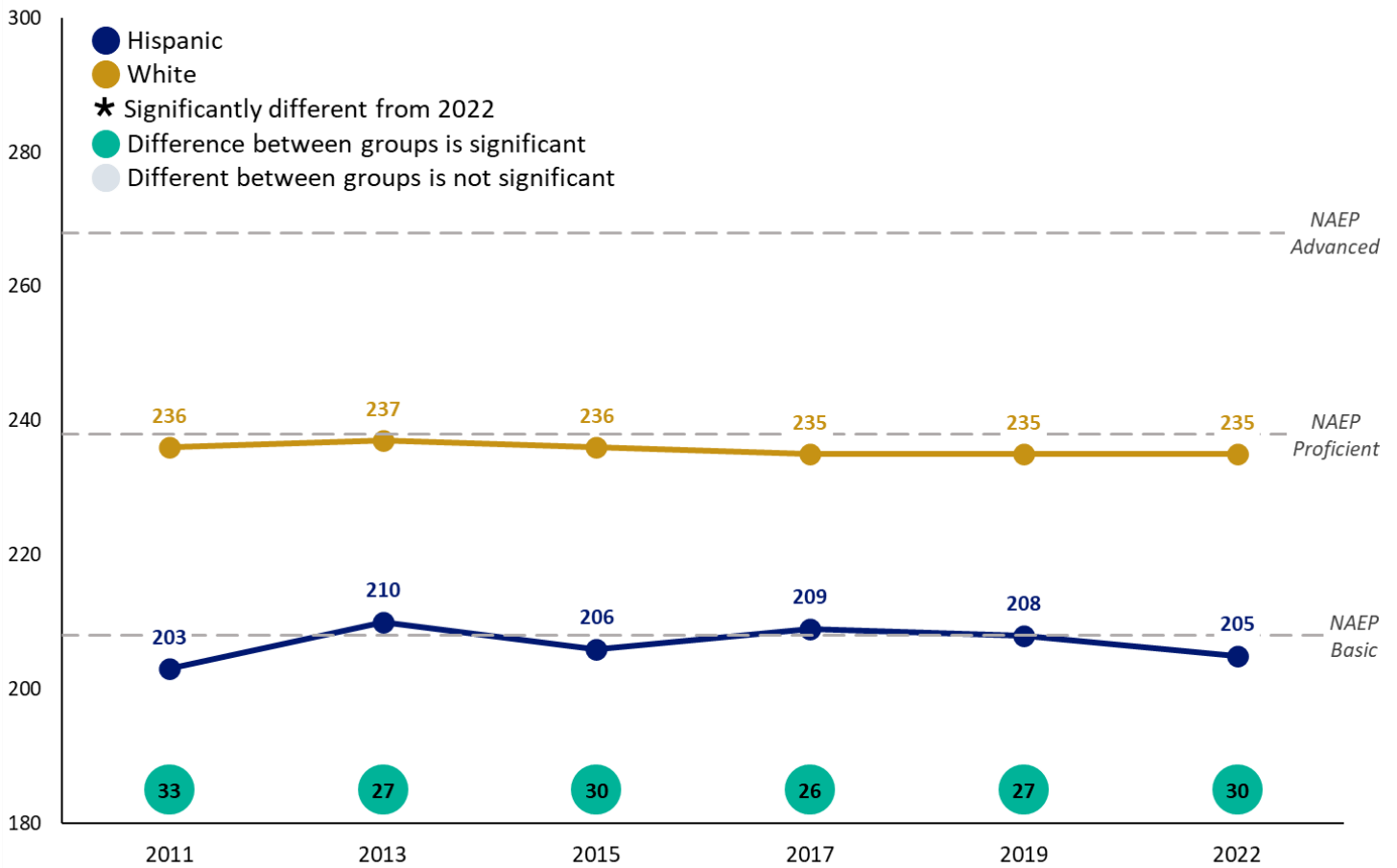
● Hispanic
● White
★ Significantly different from 2022
● Difference between groups is significant
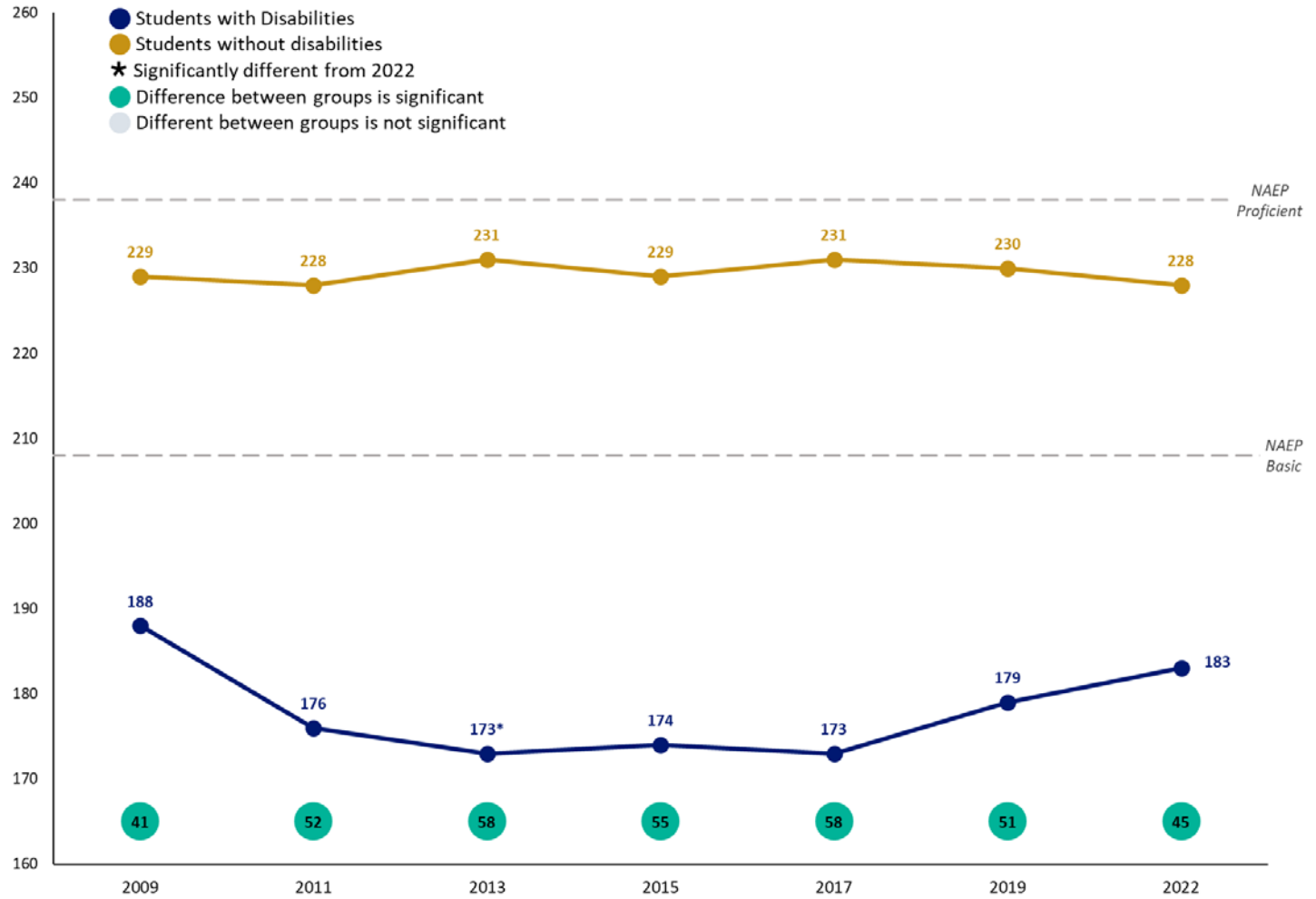● Different between groups is not significant

Note: The NAEP Grade 4 Reading scale is from 0 to 500

This is a comparison of Colorado 4th grade student subgroups using the average scale scores on the NAEP Reading assessment extending back to 2011. The gold line represents White student 4th grade average scale scores while the blue line represents Hispanic student 4th grade average scale scores. The green dots represent the score gaps between the student subgroups.

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CDE

Colorado NAEP Reading Grade 4 Free and Reduced Lunch / Non- Free and Reduced Lunch Gap

Trend in NAEP average scores and score gaps for students in Colorado, by reduced price lunch status

Note: The NAEP Grade 4 Reading scale is from 0 to 500

This is a comparison of Colorado 4th grade student subgroups using the average scale scores on the NAEP Reading assessment extending back to 2003. The gold line represents 4th grade students not eligible for free and reduced lunch average scale scores while the blue line represents 4th grade students eligible for free and reduced lunch average scale scores. The green dots represent the score gaps between the student subgroups.

Colorado NAEP Reading Grade 4 Non-Disabled Students / Students with Disabilities Gap

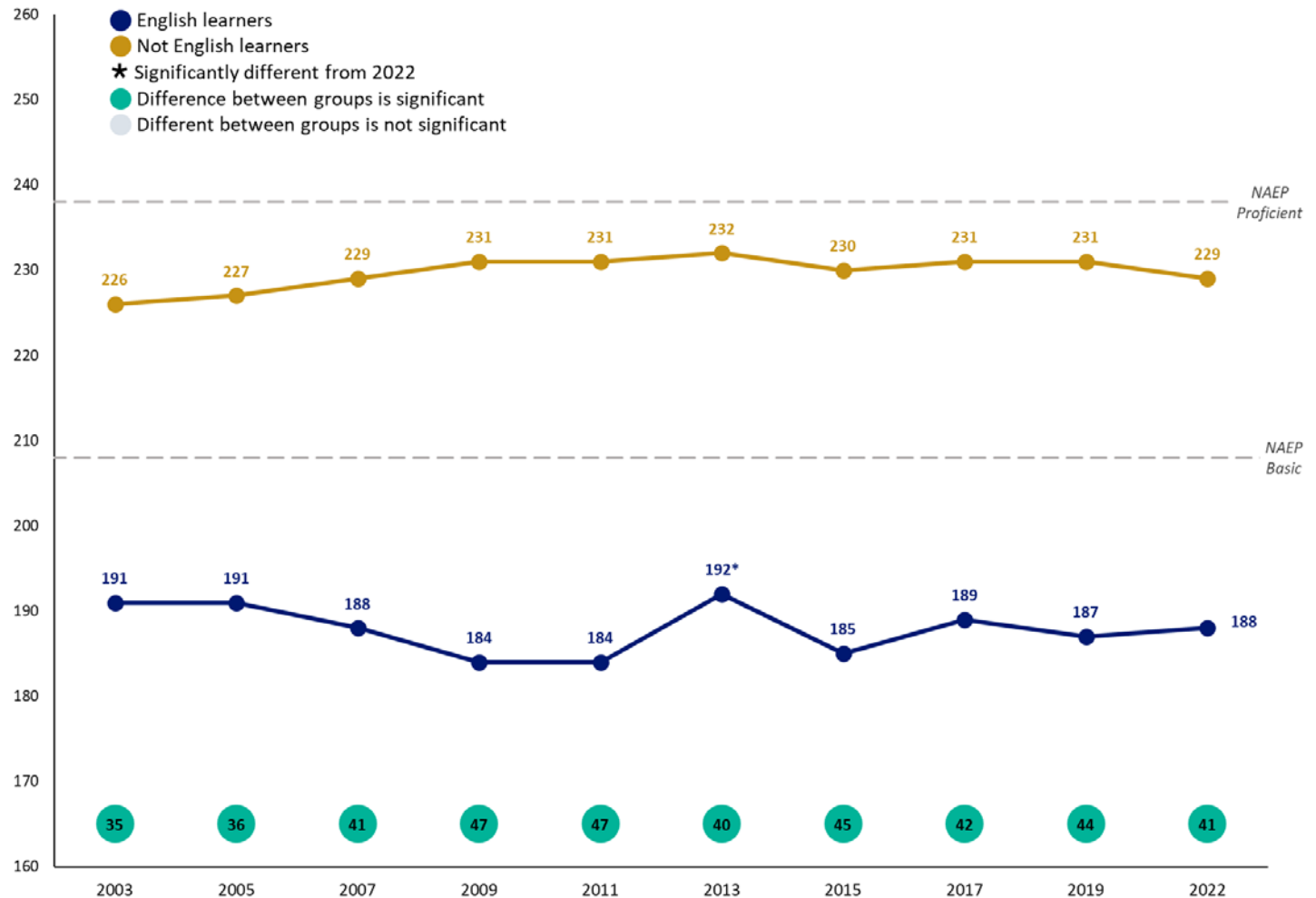**Trend in NAEP average scores and score gaps for students in Colorado, by disability status**

Note: The NAEP Grade 4 Reading scale is from 0 to 500

This is a comparison of Colorado 4th grade student subgroups using the average scale scores on the NAEP Reading assessment extending back to 2009. The gold line represents 4th grade average scale scores of non disabled students while the blue line represents 4th grade average scale scores of students with disabilities. The green dots represent the score gaps between the student subgroups.

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Colorado NAEP Reading Grade 4 Non-English Language Learners / English Language Learners Gap

Trend in NAEP average scores and score gaps for students in Colorado, by language learner status

Legend:
- ● English learners
- ● Not English learners
- ★ Significantly different from 2022
- ● Difference between groups is significant
- ○ Different between groups is not significant

Not English learners (gold line): 226 (2003), 227 (2005), 229 (2007), 231 (2009), 231 (2011), 232 (2013), 230 (2015), 231 (2017), 231 (2019), 229 (2022)

English learners (blue line): 191 (2003), 191 (2005), 188 (2007), 184 (2009), 184 (2011), 192* (2013), 185 (2015), 189 (2017), 187 (2019), 188 (2022)

Score gaps (green dots): 35, 36, 41, 47, 47, 40, 45, 42, 44, 41

NAEP Proficient
NAEP Basic

Note: The NAEP Grade 4 Reading scale is from 0 to 500

This is a comparison of Colorado 4th grade student subgroups using the average scale scores on the NAEP Reading assessment extending back to 2003. The gold line represents 4th grade average scale scores of students who are not English language learners while the blue line represents 4th grade average scale scores of students who are English language learners. The green dots represent the score gaps between the student subgroups.

WHERE CAN I LEARN MORE?

http://www.cde.state.co.us/assessment/conaep

https://www.nationsreportcard.gov