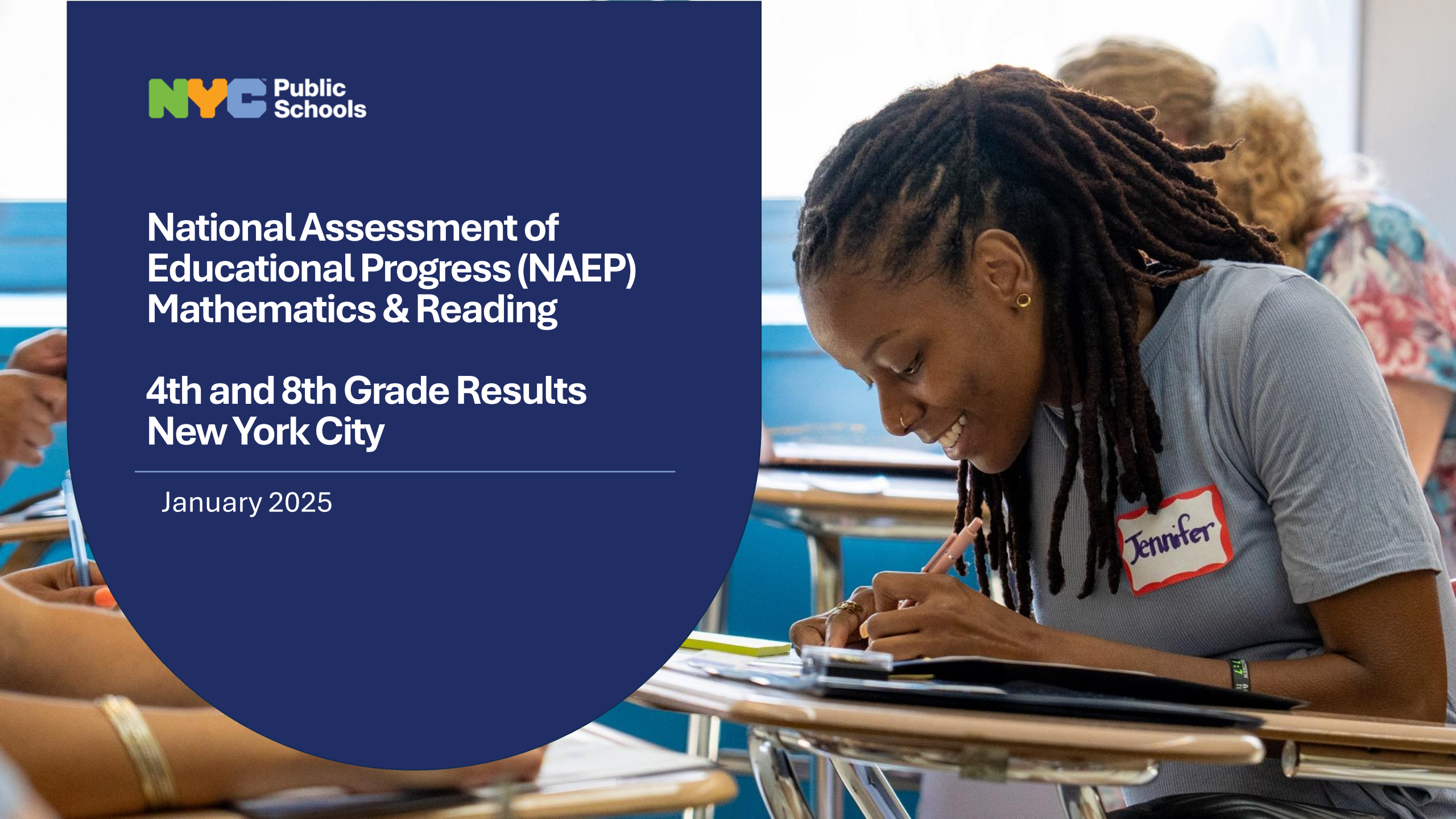




# National Assessment of Educational Progress (NAEP) Mathematics & Reading

## 4th and 8th Grade Results New York City

January 2025



# Background

- The National Assessment of Educational Progress (NAEP) – the Nation’s Report Card – is a congressionally authorized assessment administered by the National Center for Education Statistics (NCES).
- Every two years since 2003, results for NYC are released for Reading and Math in Grades 4 and 8. The 2021 tests were delayed to 2022 due to COVID-19.
- NAEP provides an opportunity to compare NYC to:
  - Nation (Public schools)
  - Rest of NY State
  - 25 other Trial Urban Districts (TUDAs): Albuquerque, Atlanta, Austin, Baltimore, Boston, Charlotte, Chicago, Clark County (Las Vegas), Cleveland, Dallas, Denver, Detroit, District of Columbia, Duval County (Jacksonville), Fort Worth, Guilford County (Greensboro, NC), Hillsborough County (Tampa), Houston, Jefferson County (Louisville), Los Angeles, Miami-Dade, Milwaukee, Orange County (Orlando) Philadelphia, San Diego, Shelby County (Memphis)
  - Large City: All of the TUDA districts, plus additional cities with populations of 250,000 or more.

# Sampling & Statistical Significance

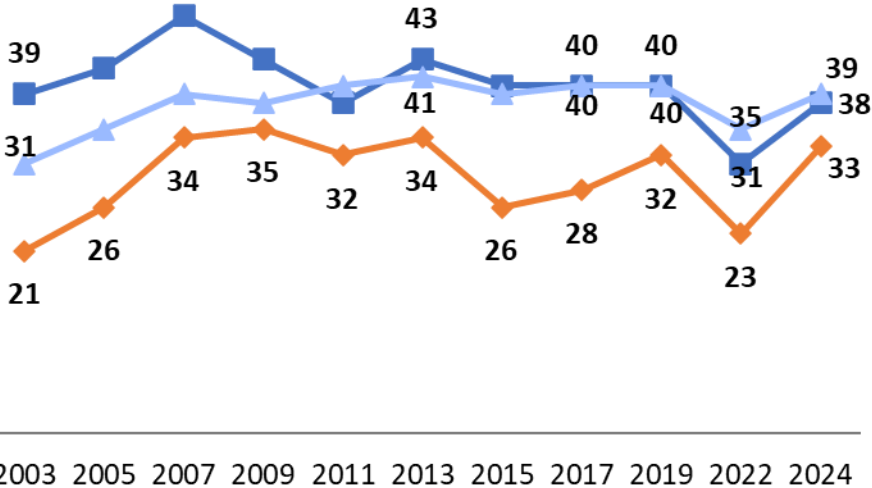
- Sampling:
  - No student-level or school-level data is provided. NAEP conducts a random sample of students. No student even gets the complete Math or Reading test, but rather a portion of the questions.
  - 235,000 4th graders and 230,000 8th graders participated in the national sample in Math or Reading.
  - 1,300 NYC 4th graders each took Math & Reading
  - 1,300 NYC 8th graders each took Math & Reading.
  - Charter schools are not included in the NYC sample.
- Reporting Results & Statistical Significance:
  - Because NAEP is based on a sample, NCES reports on statistical significance. If a change over time is not found to be statistically significant, NCES publicly represents this as flat. Statistical significance is dependent on the size of the sample - it is easier to be statistically significant if you have a bigger sample. Therefore, sometimes when the Nation and NYC have the same gains, only those of the Nation will be statistically significant.
  - Differences between scale scores or percentages are calculated using unrounded values. In some instances, the result of the subtraction differs from what would be obtained by subtracting the rounded values.

# Math NYC vs. Rest of NY State vs. Nation - Percent At or Above Proficient

NAEP results are based on a sample. Changes over time are flat if they are not statistically significant.  
 Statistically significant changes at the  $p < .05$  level are starred.

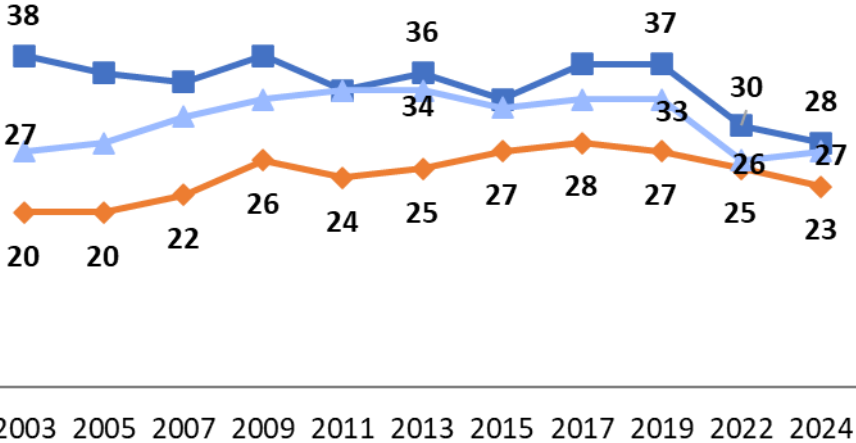
## Grade 4

	Point Change		
	Since 2022	Since 2019	Since 2003
NYC	+10 pts*	+2 pts	+12 pts*
ROS	+7 pts	-2 pts	-1 pts
Nation	+4 pts*	-1 pts*	+8 pts*



## Grade 8

	Point Change		
	Since 2022	Since 2019	Since 2003
NYC	-2 pts	-4 pts	+3 pts
ROS	-3 pts	-10 pts*	-10 pts*
Nation	+1 pts*	-6 pts*	0 pts



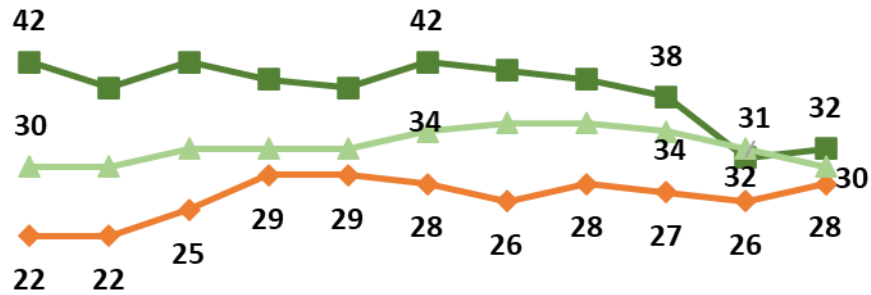
# Reading NYC vs. Rest of NY State vs. Nation - Percent At or Above Proficient

NAEP results are based on a sample. Changes over time are flat if they are not statistically significant.  
 Statistically significant changes the  $p < .05$  level are starred.

## Grade 4

Point Change

	Since 2022	Since 2019	Since 2003
NYC	+2 pts	+1 pts	+6 pts*
ROS	+1 pts	-6 pts*	-10 pts*
Nation	-2 pts*	-4 pts*	+1 pts

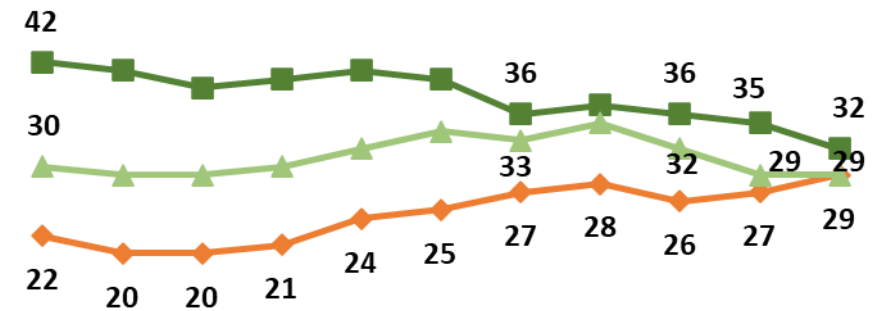


2003 2005 2007 2009 2011 2013 2015 2017 2019 2022 2024

## Grade 8

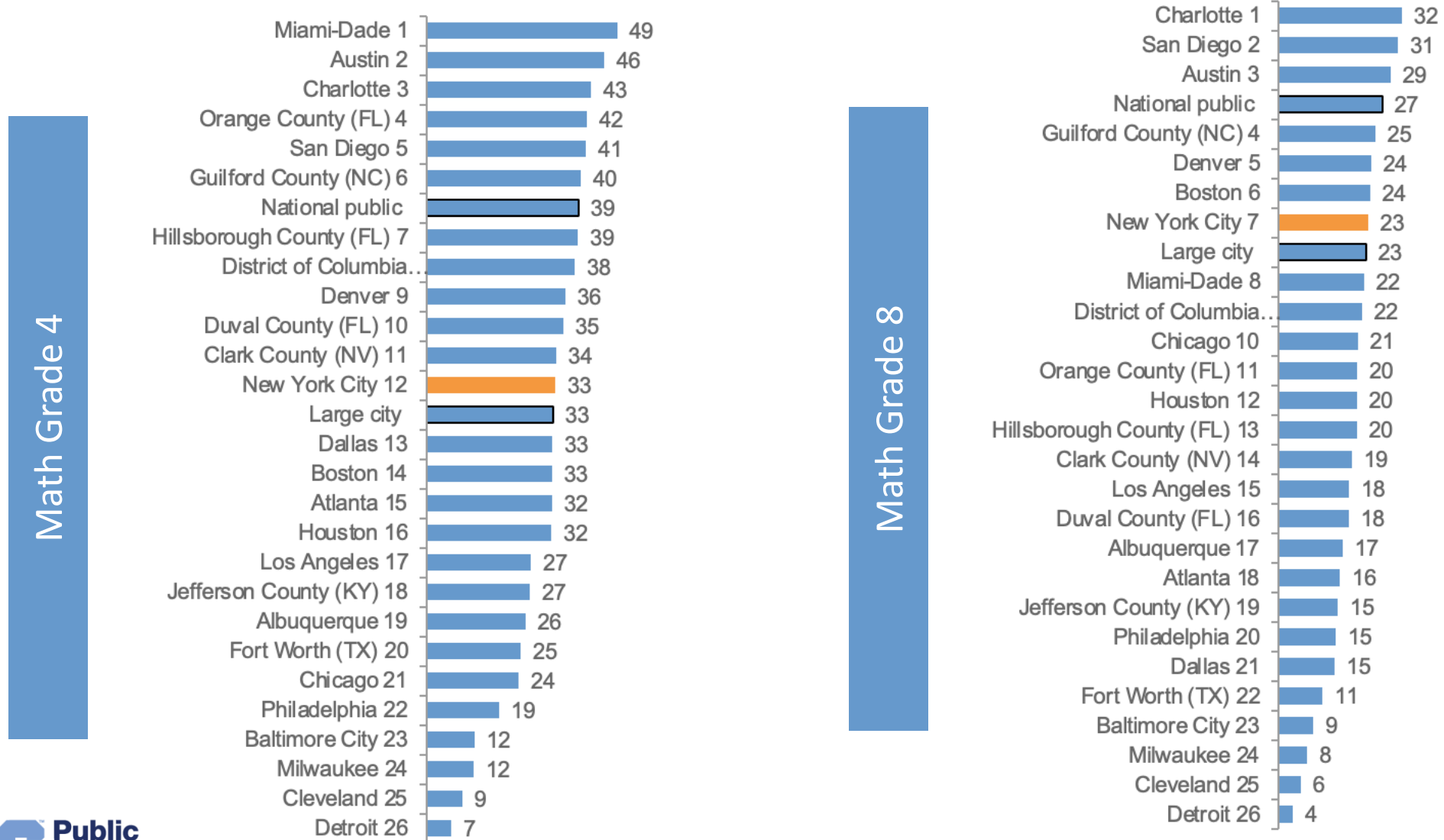
Point Change

	Since 2022	Since 2019	Since 2003
NYC	+1 pts	+2 pts	+7 pts*
ROS	-3 pts	-4 pts	-10 pts*
Nation	-1 pts	-4 pts*	-1 pts*



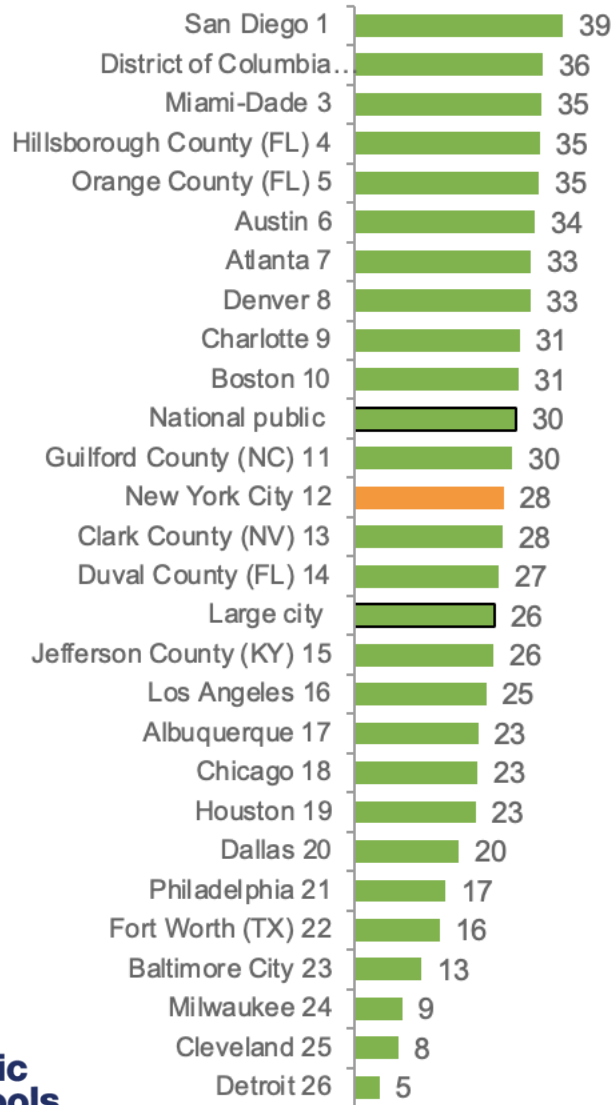
2003 2005 2007 2009 2011 2013 2015 2017 2019 2022 2024

# 2024 Math Urban District Rankings for All Students Percent At or Above Proficient

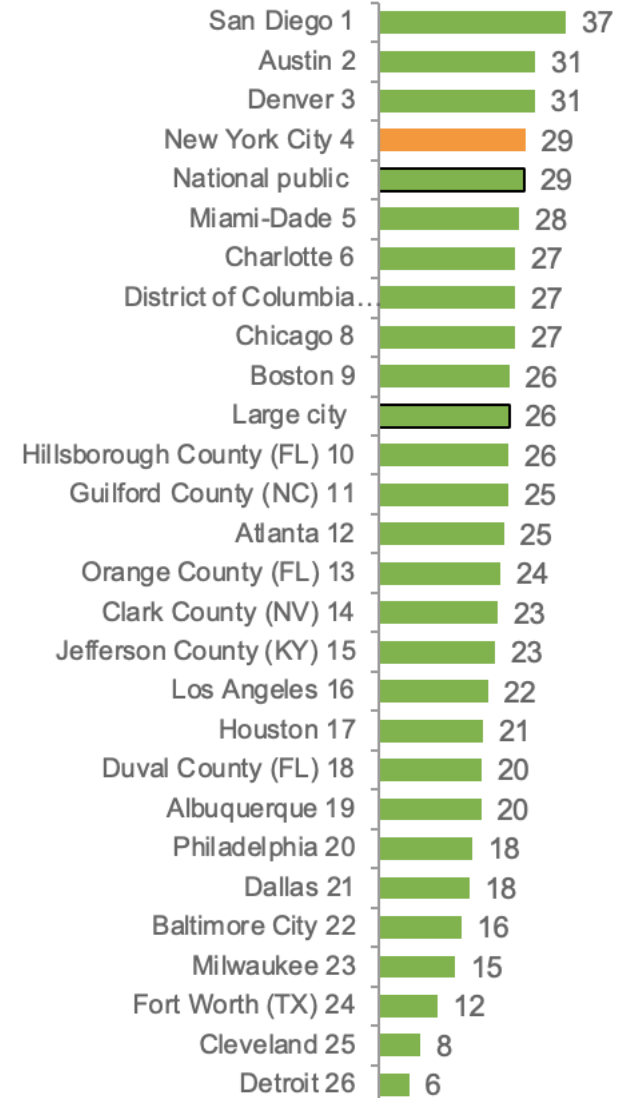


# 2024 Reading Urban District Rankings for All Students Percent At or Above Proficient

Reading Grade 4



Reading Grade 8

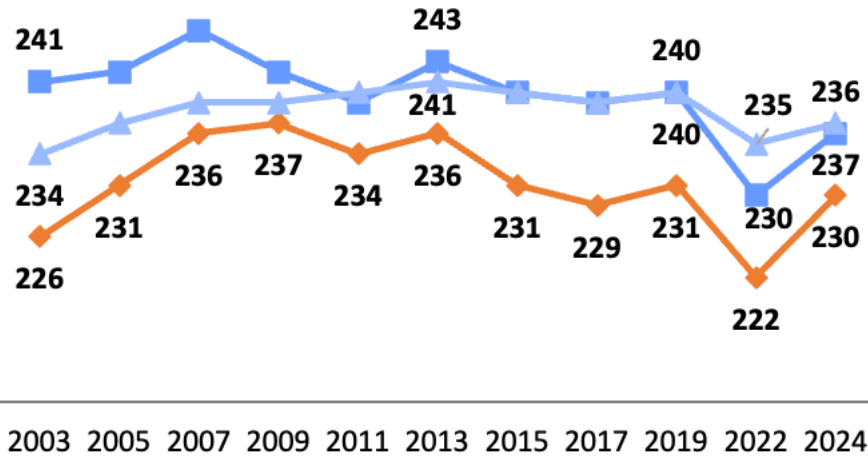


# Math NYC vs. Rest of NY State vs. Nation - Scale Scores

NAEP results are based on a sample. Changes over time are flat if they are not statistically significant. Statistically significant changes at the  $p < .05$  level are starred.

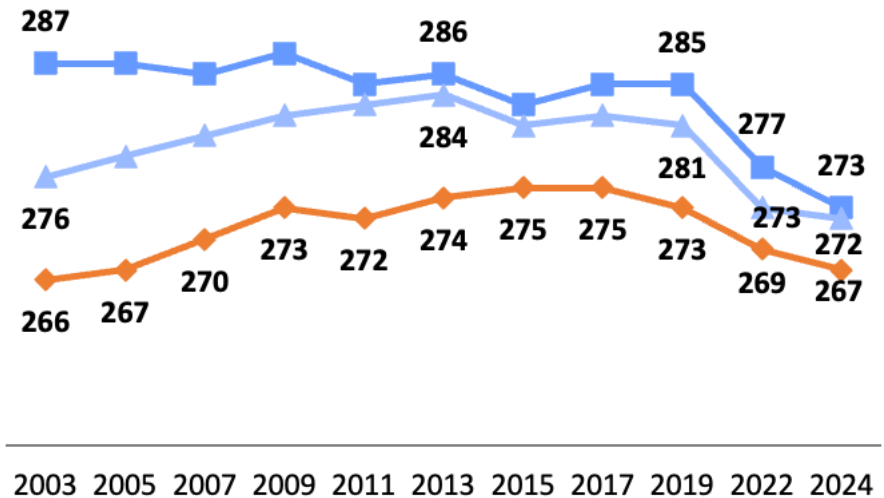
## Grade 4

	Point Change		
	Since 2022	Since 2019	Since 2003
NYC	+8 pts*	-1 pts	+4 pts
ROS	+6 pts*	-4 pts	-5 pts
Nation	+2 pts*	-3 pts*	+3 pts*



## Grade 8

	Point Change		
	Since 2022	Since 2019	Since 2003
NYC	-2 pts	-6 pts	+1 pts
ROS	-4 pts	-12 pts*	-14 pts*
Nation	-1 pts	-9 pts*	-4 pts*



◆ New York City    
 ■ Rest of NY State    
 ▲ National (Public)

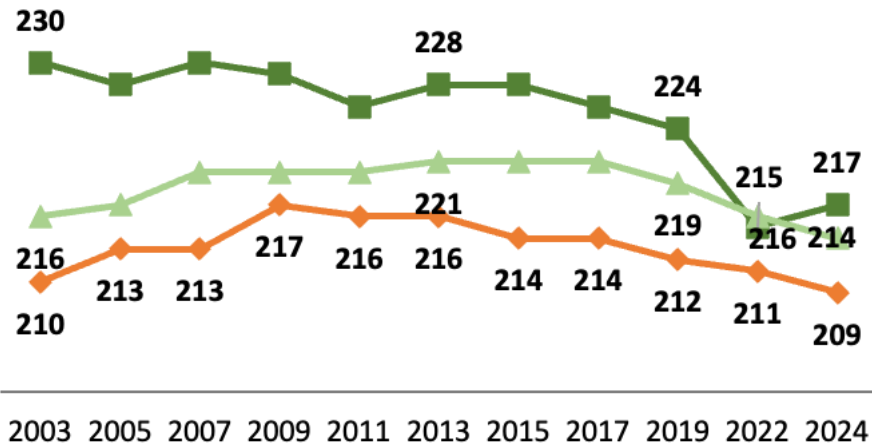


# Reading NYC vs. Rest of NY State vs. Nation - Scale Scores

NAEP results are based on a sample. Changes over time are flat if they are not statistically significant. Statistically significant changes at the  $p < .05$  level are starred.

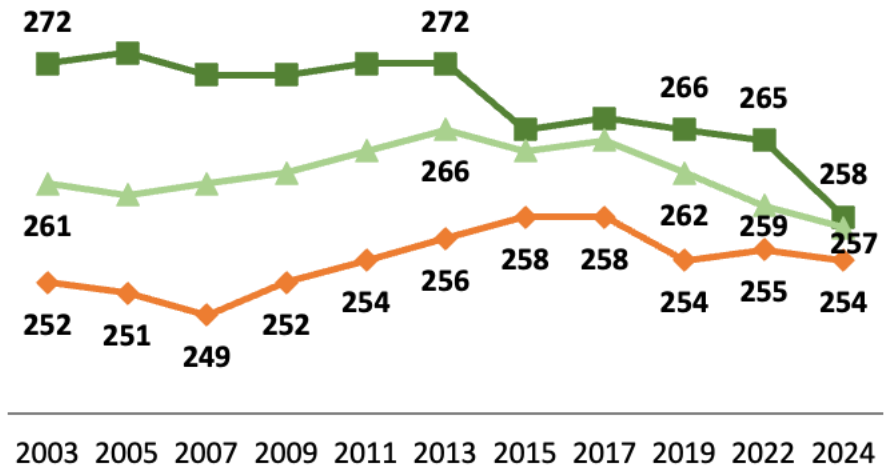
## Grade 4

	Point Change		
	Since 2022	Since 2019	Since 2003
NYC	-2 pts	-3 pts	-1 pts
ROS	+2 pts	-7 pts*	-13 pts*
Nation	-2 pts*	-5 pts*	-2 pts*



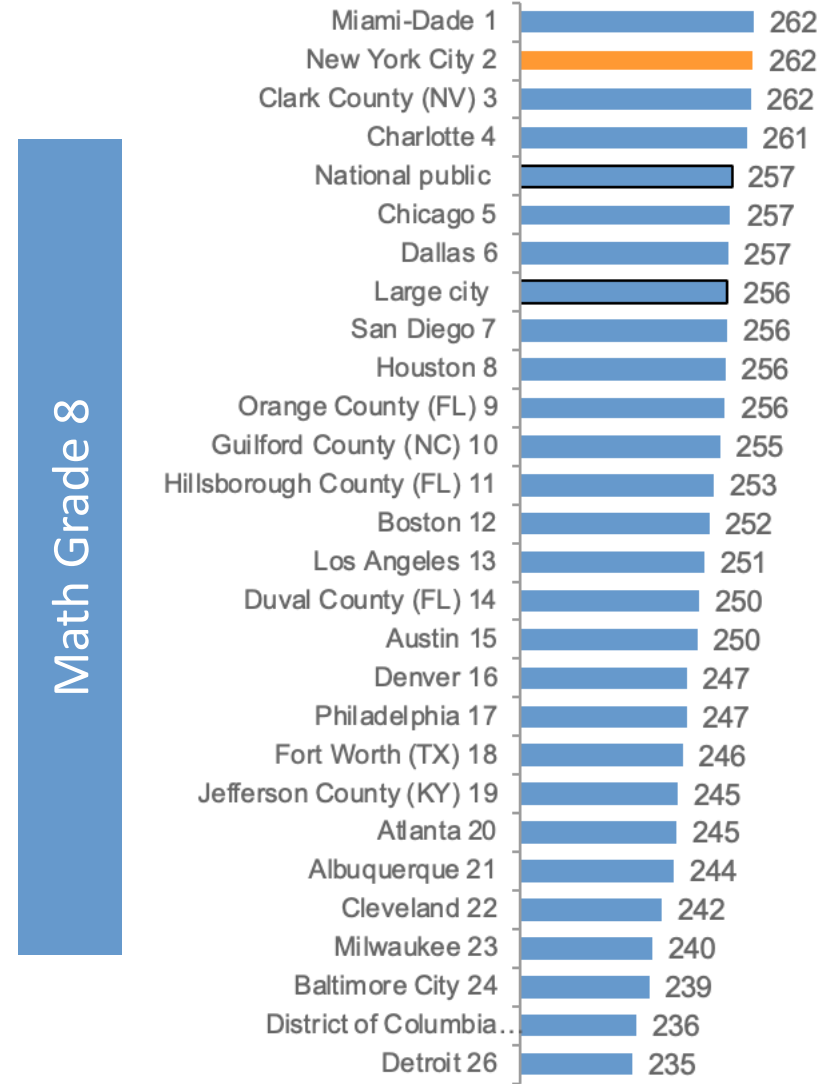
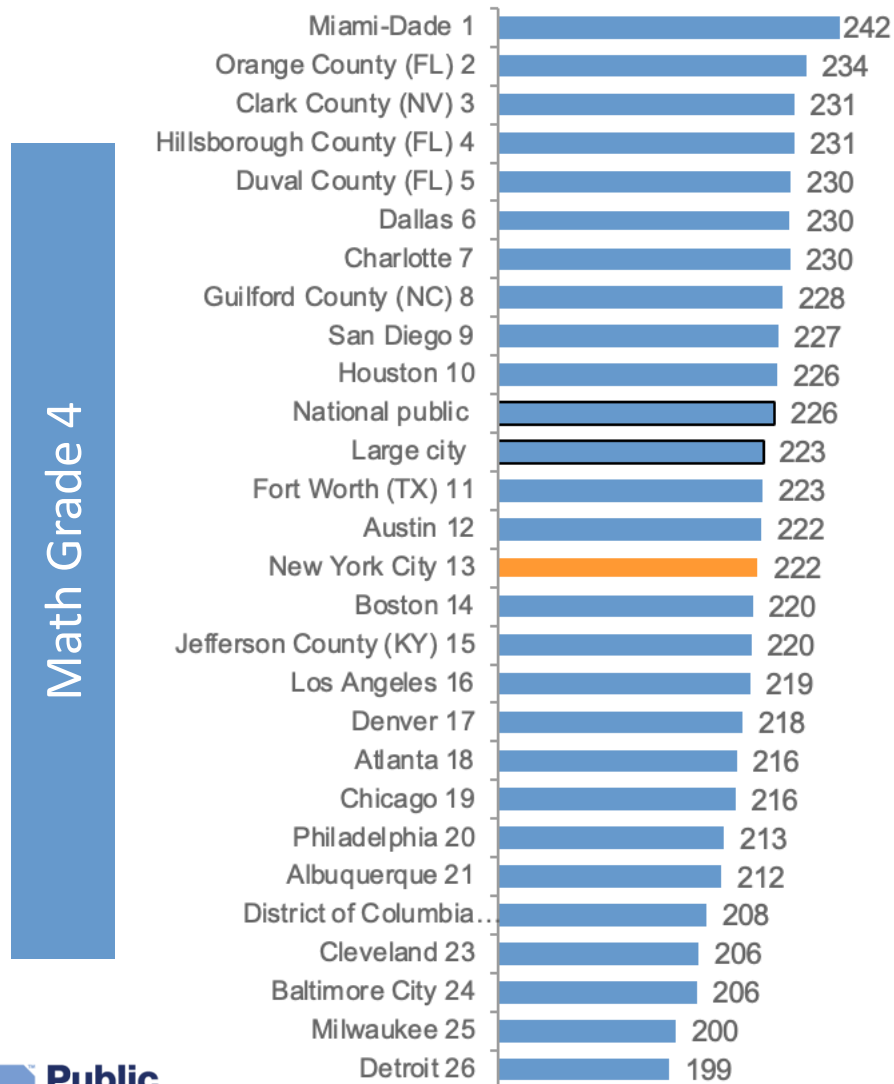
## Grade 8

	Point Change		
	Since 2022	Since 2019	Since 2003
NYC	-1 pts	0 pts	+2 pts
ROS	-7 pts	-8 pts*	-14 pts*
Nation	-2 pts*	-5 pts*	-5 pts*

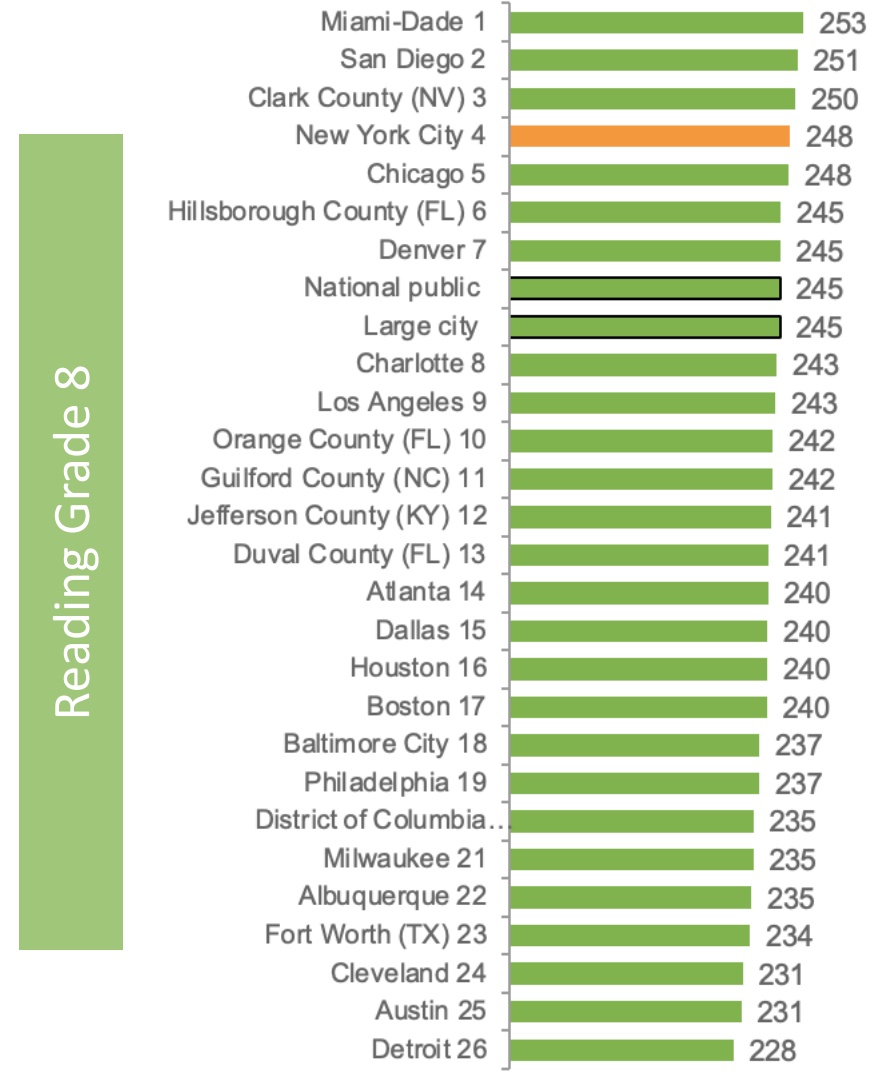
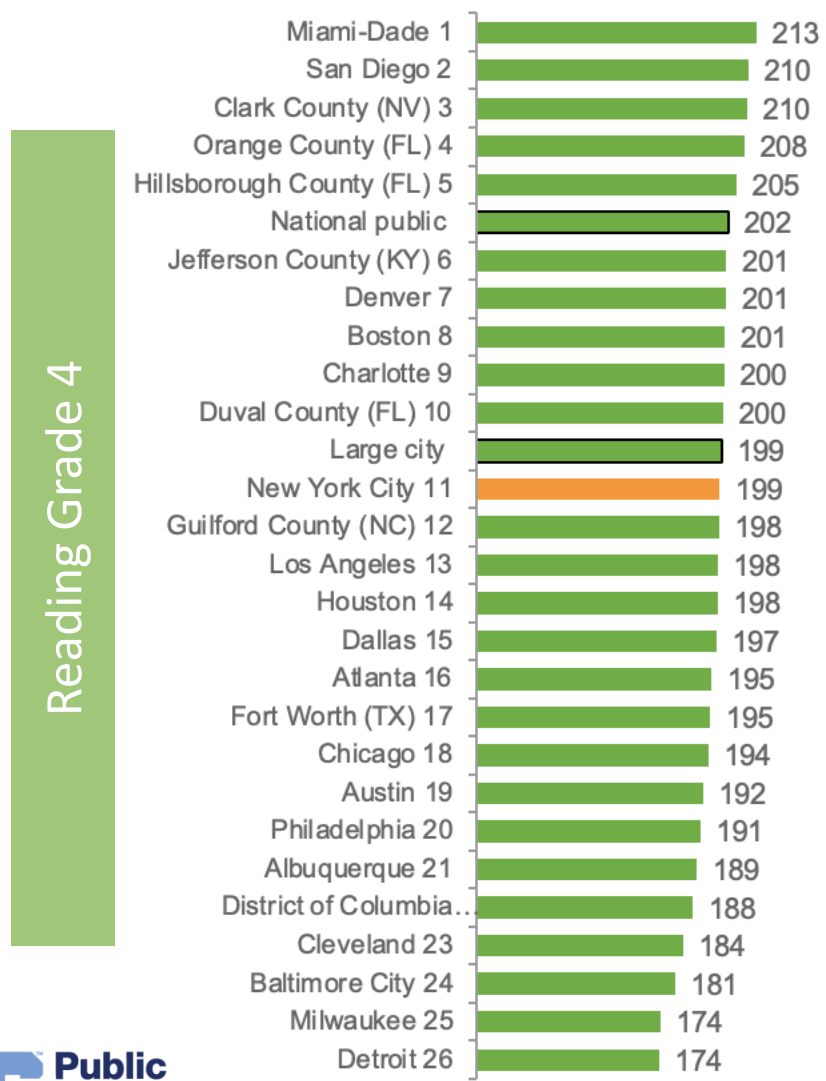


◆ New York City    
 ■ Rest of NY State    
 ▲ National (Public)

# 2024 Math Urban District Rankings for Free & Reduced Price Lunch Eligible Students - Scale Score



# 2024 Reading Urban District Rankings for Free & Reduced Price Lunch Eligible Students - Scale Score





# TUDA Districts Change from 2019 to 2024


NYC is **one of four TUDA districts to be statistically flat** compared to pre-pandemic levels on 4<sup>th</sup> & 8<sup>th</sup> grade NAEP math and reading tests.

Average scale score-point changes between 2024 & 2019 for public school students, by TUDA district				
District	Math Grade 4 Change	Reading Grade 4 Change	Math Grade 8 Change	Reading Grade 8 Change
National public	-3 ↓	-5 ↓	-9 ↓	-5 ↓
Large city	-4 ↓	-3 ↓	-8 ↓	-2 ↓
Albuquerque	-7 ↓	-7 ↓	-11 ↓	-5 ↓
Atlanta	-2 ◇	-1 ◇	-12 ↓	-3 ◇
Austin	-1 ◇	-2 ◇	-10 ↓	-4 ◇
Baltimore City	-7 ↓	-6 ◇	-9 ↓	-1 ◇
Boston	-2 ◇	0 ◇	-15 ↓	-8 ↓
Charlotte	-6 ↓	-11 ↓	-13 ↓	-8 ↓
Chicago	-9 ↓	-6 ↓	-10 ↓	2 ◇
Clark County (NV)	-4 ◇	-6 ↓	-10 ↓	-6 ↓
Cleveland	-11 ↓	-12 ↓	-11 ↓	-11 ↓
Dallas	-2 ◇	-1 ◇	-5 ◇	2 ◇
Denver	-2 ◇	-1 ◇	-11 ↓	1 ◇
Detroit	-6 ↓	-8 ↓	-7 ↓	-2 ◇

Average scale score-point changes between 2024 & 2019 for public school students, by TUDA district				
District	Math Grade 4 Change	Reading Grade 4 Change	Math Grade 8 Change	Reading Grade 8 Change
District of Columbia	-1 ◇	1 ◇	-9 ↓	1 ◇
Duval County (FL)	-8 ↓	-11 ↓	-13 ↓	-10 ↓
Fort Worth (TX)	-7 ↓	-6 ↓	-13 ↓	-5 ↓
Guilford County (NC)	1 ◇	-7 ↓	-11 ↓	-5 ↓
Hillsborough County (FL)	-2 ◇	-5 ◇	-10 ↓	-7 ↓
Houston	-2 ◇	2 ◇	-10 ↓	-2 ◇
Jefferson County (KY)	-5 ↓	-4 ◇	-17 ↓	-8 ↓
Los Angeles	2 ◇	2 ◇	-1 ◇	1 ◇
Miami-Dade	1 ◇	-6 ↓	-8 ↓	-7 ↓
Milwaukee	-10 ↓	-11 ↓	-8 ↓	-1 ◇
New York City	-1 ◇	-3 ◇	-6 ◇	0 ◇
Orange County (FL)	—	—	—	—
Philadelphia	-1 ◇	-2 ◇	-4 ◇	-1 ◇
San Diego	-2 ◇	1 ◇	-8 ↓	-2 ◇

 District with no statistically significant change across all tests

 Statistically significant decrease

 No statistically significant difference

# NYC Change from 2022 to 2024 By Subgroup - Scale Score

NAEP results are based on a sample. Changes over time are flat if they are not statistically significant.  
Statistically significant changes at the  $p < .05$  level are starred.

	All Students	Free/ Reduced Lunch Students	Asian Students	Black Students	Hispanic Students	White Students	Students with Disabilities	English Language Learners
Grade 4, Math	<b>+8*</b>	<b>+7*</b>	<b>+4</b>	<b>+10</b>	<b>+3</b>	<b>+8</b>	<b>+5</b>	<b>+0.2</b>
Grade 8, Math	<b>-2</b>	<b>+0.1</b>	<b>-2</b>	<b>+9</b>	<b>-3</b>	<b>-12</b>	<b>+4</b>	<b>-0.1</b>
Grade 4, Reading	<b>-2</b>	<b>-5</b>	<b>-1</b>	<b>+3</b>	<b>-8</b>	<b>-3</b>	<b>-5</b>	<b>-19*</b>
Grade 8, Reading	<b>-1</b>	<b>+0.5</b>	<b>-1</b>	<b>+4</b>	<b>-1</b>	<b>-8</b>	<b>+2</b>	<b>-10</b>

For the 2022 NAEP administration, all current ELLs were retained in ELL status due to the COVID-19 pandemic. As a result, ELLs who tested out of ELL status and would have otherwise been exited inflated the 2022 ELL statistics. For the 2024 administration, ELLs who tested out were exited from ELL status and English proficient ELLs were not included in the ELL subgroup.