

# NAEP

# National Assessment of Educational Progress

# SCIENCE

4<sup>th</sup> and 8<sup>th</sup> Grade  
2009 Trial Urban District Assessment (TUDA)  
New York City Highlights

# 2009 NAEP SCIENCE TUDA DISTRICTS

## STUDENT DEMOGRAPHICS

### GRADE 4

### GRADE 8

Grade 4	
District	% of Students Eligible for Free/Reduced Lunch
Nation	48
Large City*	71
Cleveland	100
Fresno	89
Chicago	87
New York City	87
Philadelphia	87
Baltimore	85
Los Angeles	84
Houston	83
Detroit	81
Boston	79
Milwaukee	78
Atlanta	74
Miami-Dade	68
Austin	65
Jefferson	60
San Diego	60
Charlotte	47

Grade 4	
District	Percentage of Black and Hispanic Students
Nation	38
Large City*	71
Detroit	96
Baltimore	90
Houston	90
Chicago	87
Miami-Dade	87
Atlanta	84
Los Angeles	84
Cleveland	80
Philadelphia	80
Milwaukee	79
Boston	77
Fresno	74
Austin	72
New York City	69
Charlotte	55
San Diego	54
Jefferson	41

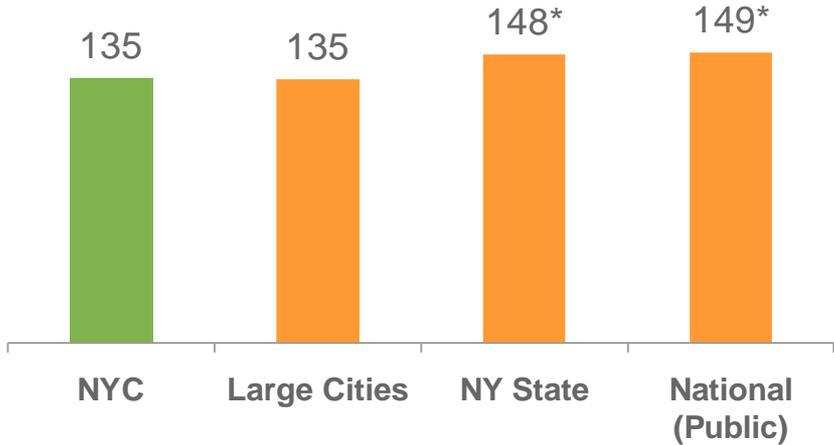
Grade 8	
District	Percentage of Students Eligible for Free/Reduced Lunch
Nation	43
Large City*	66
Cleveland	100
Chicago	86
Fresno	86
Philadelphia	84
Los Angeles	82
Baltimore	81
New York City	79
Atlanta	78
Houston	78
Milwaukee	78
Boston	73
Detroit	70
Miami-Dade	63
Austin	55
Jefferson	55
San Diego	55
Charlotte	47

Grade 8	
District	Percentage of Black and Hispanic Students
Nation	37
Large City*	70
Detroit	96
Atlanta	92
Baltimore	92
Houston	89
Chicago	88
Miami-Dade	88
Los Angeles	85
Cleveland	83
Milwaukee	82
Boston	75
Philadelphia	75
New York City	71
Fresno	69
Austin	66
Charlotte	61
San Diego	52
Jefferson	40

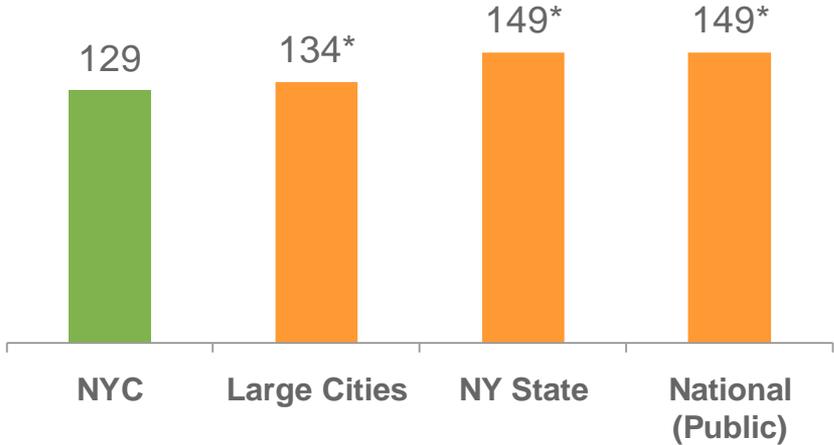
# ALL STUDENTS IN NYC, LARGE CITIES, NY STATE, & THE NATION

## AVERAGE SCALE SCORES 2009 NAEP SCIENCE

### GRADE 4



### GRADE 8



\*=significantly different from NYC

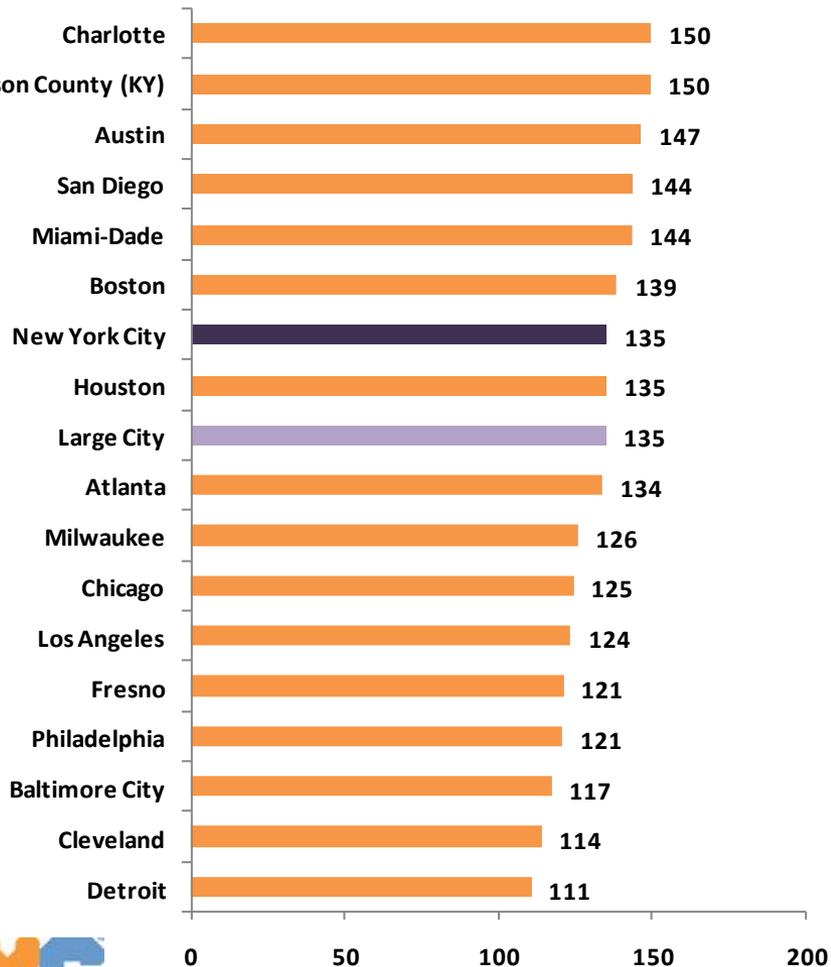
# 2009 NAEP SCIENCE RANKINGS

## NYC, LARGE CITIES, TUDA, AND NATION

### Grade 4

#### All Students, Scale Scores

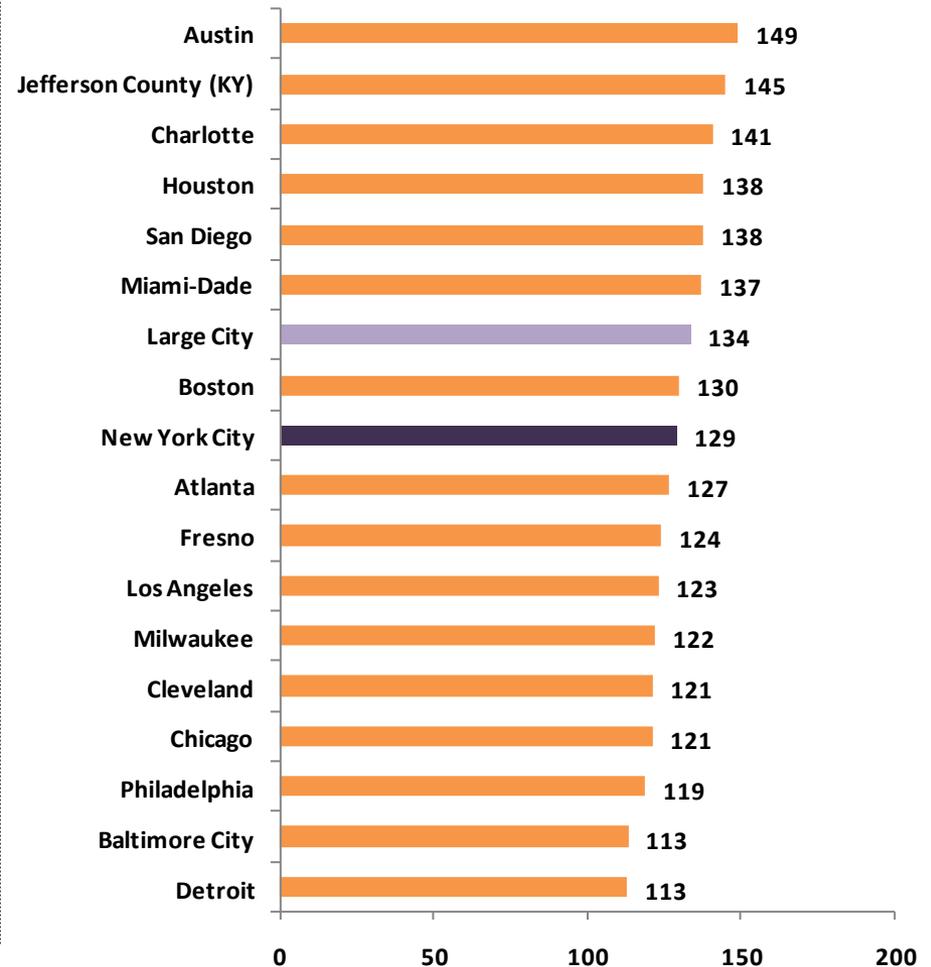
NYC's Rank:  
7 of 17



### Grade 8

#### All Students, Scale Scores

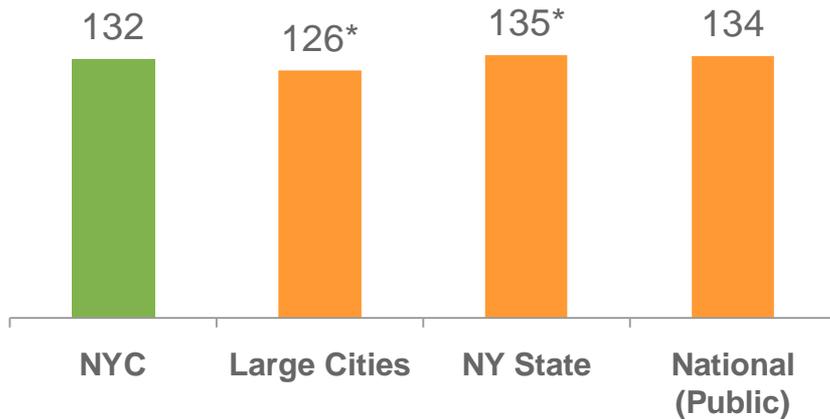
NYC's Rank:  
8 of 17



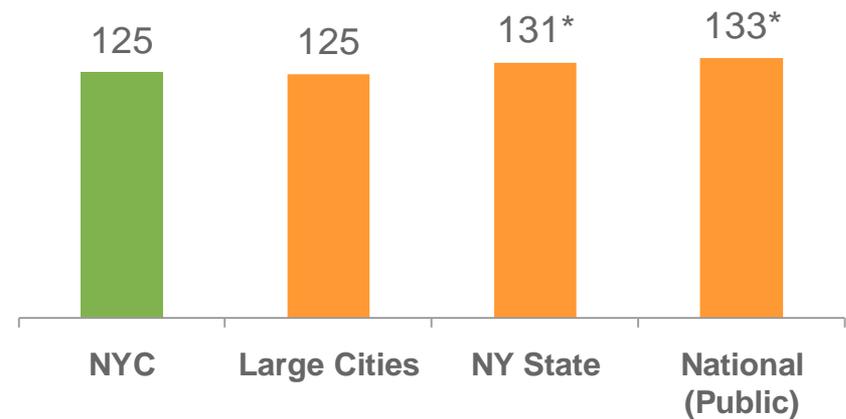
# FREE AND REDUCED LUNCH STUDENTS IN NYC, LARGE CITIES, NY STATE, & THE NATION

AVERAGE SCALE SCORES  
2009 NAEP SCIENCE

## GRADE 4



## GRADE 8

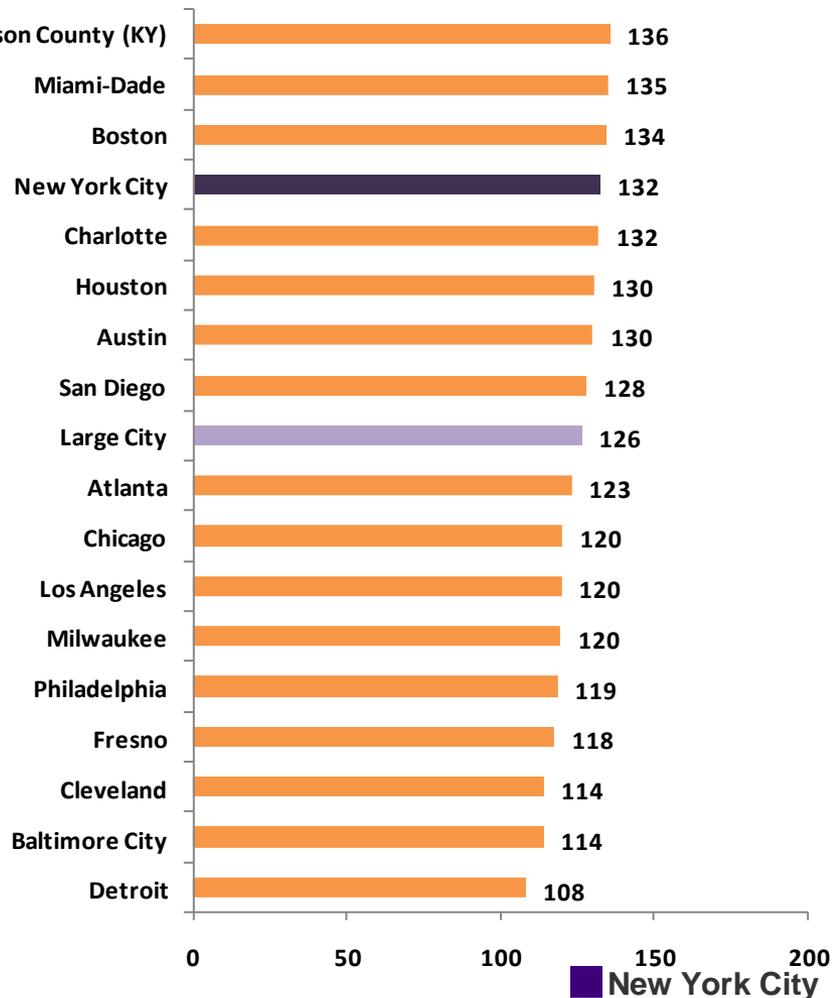


# 2009 NAEP SCIENCE RANKINGS NYC, LARGE CITIES, TUDA, AND NATION

## Grade 4

### Students Eligible for Free/Reduced Lunch Scale Scores

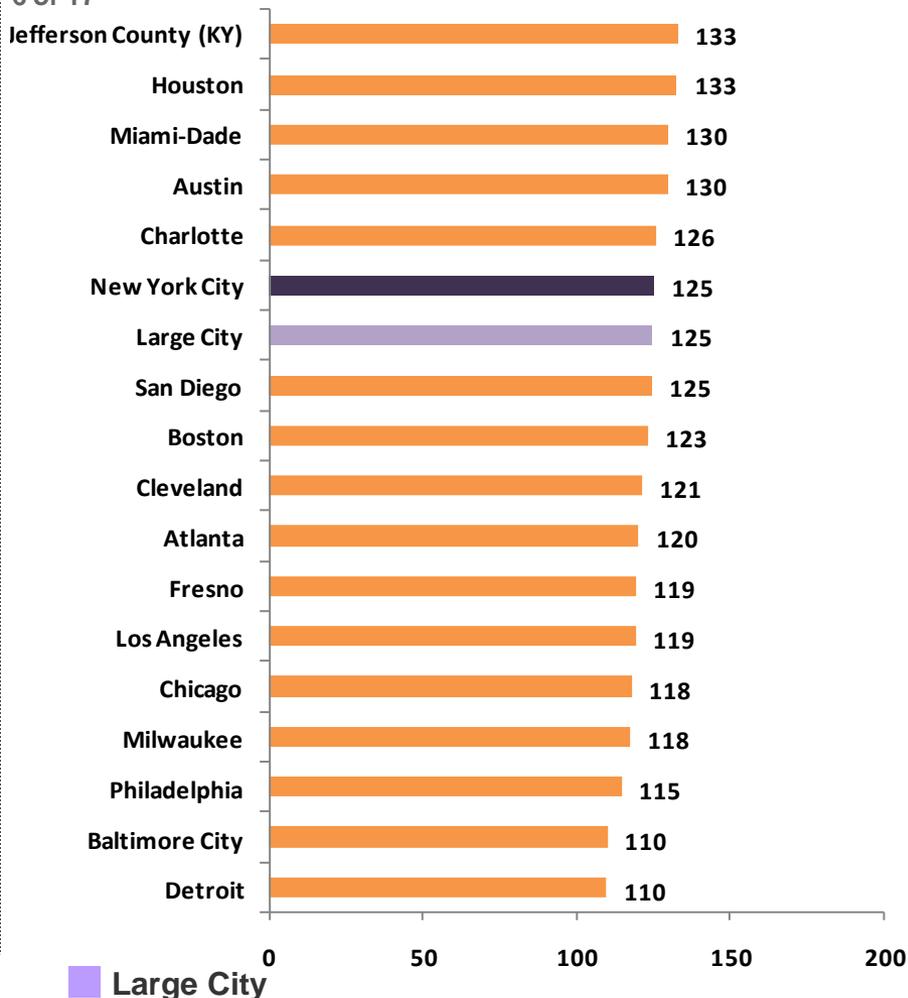
NYC's Rank:  
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## Grade 8

### Students Eligible for Free/Reduced Lunch Scale Scores

NYC's Rank:  
6 of 17



# APPENDICES

# NAEP Background

- The National Assessment of Educational Progress (NAEP), often referred to as “the nation’s report card,” is the nation’s ongoing representative sample survey of student achievement in core subject areas (Math, Reading, and Science) and reports the educational progress of students in grades 4, 8, and 12.
- Mandated by Congress, NAEP is administered by the United States Department of Education’s National Center for Education Statistics.
- NAEP is administered biannually to states and participating large cities.
- Eighteen urban school districts varying in demographic makeup, including New York City, participated in the 2009 NAEP Trial Urban District Assessment (TUDA) by allowing their results to be reported publicly. The 2009 TUDA Districts are: Atlanta, Austin, Baltimore City, Boston, charlotte, Chicago, Cleveland, Detroit, Fresno, Houston, Jefferson County, Los Angeles, Miami-Dade, Milwaukee, New York City, Philadelphia, San Diego, and Washington, DC\*.
- New York City has participated in TUDA since 2002.
- NAEP is viewed as a common yardstick for measuring student progress between states and districts.

# OVERVIEW OF THE NAEP 2009 SCIENCE RELEASE

## OVERVIEW

### Scoring

- There is no student, classroom, or school-level information
- Scores are presented in terms of scale scores and achievement levels

### **Scale Scores (0-300):**

- The scale for NAEP Science is 0-300
- 2009 science scores are not comparable to 2005 scores as there is a new framework this year
- Additionally, science scale scores are not comparable to Math or ELA Scores
- There is an overall Science score as well as subscores for:
  - Physical Science, Life Science, and Earth & Space Sciences
  - However, scores across the three Science subscales are not comparable

### **Achievement Levels\*:**

Achievement Level	Policy Definition
Basic	Denotes partial mastery of prerequisite knowledge and skills that are fundamental for proficient work at each grade.
Proficient	Represents solid academic performance for each grade assessed. Students reaching this level have demonstrated competency over challenging subject matter, including subject matter knowledge, application of such knowledge to real-world situations, and analytical skills appropriate to the subject matter.
Advanced	Signifies superior performance.