

#### ITEST SUMMIT 2017

Julia V. Clark Program Director

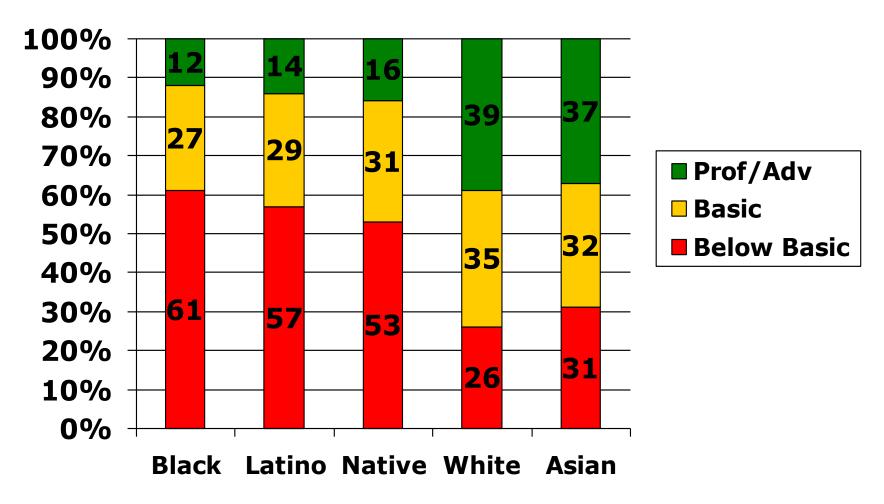
**National Science Foundation** 

Presentation on Closing the Achievement Gap June 16, 2017

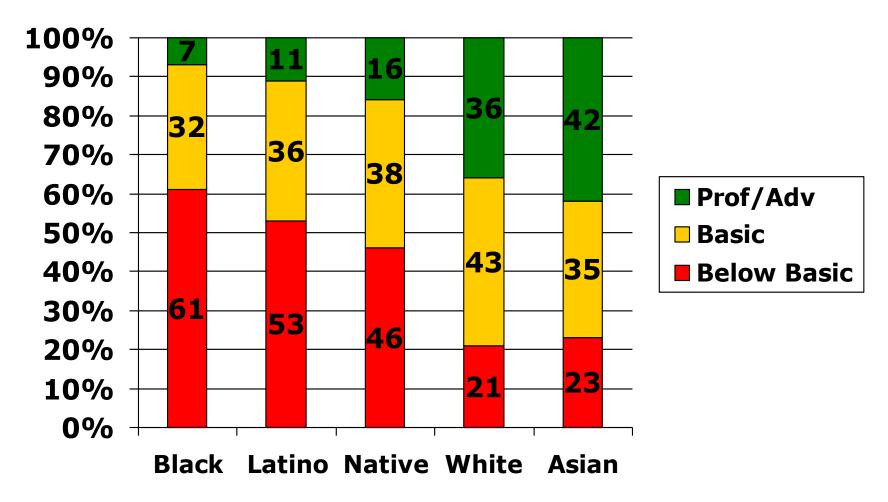


### Gaps Among Ethnic/Racial Groups

#### By Race, Ethnicity NAEP 4th Grade Reading 2003

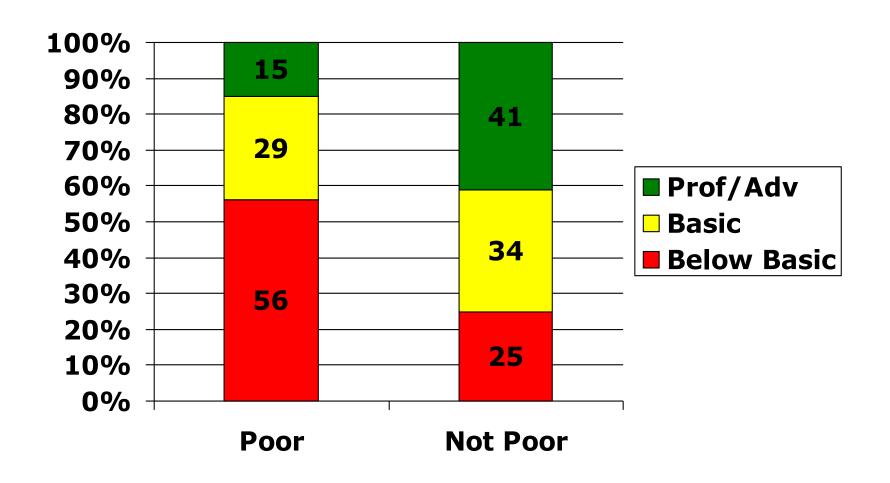


# By Race, Ethnicity NAEP 8th Grade Math 2003

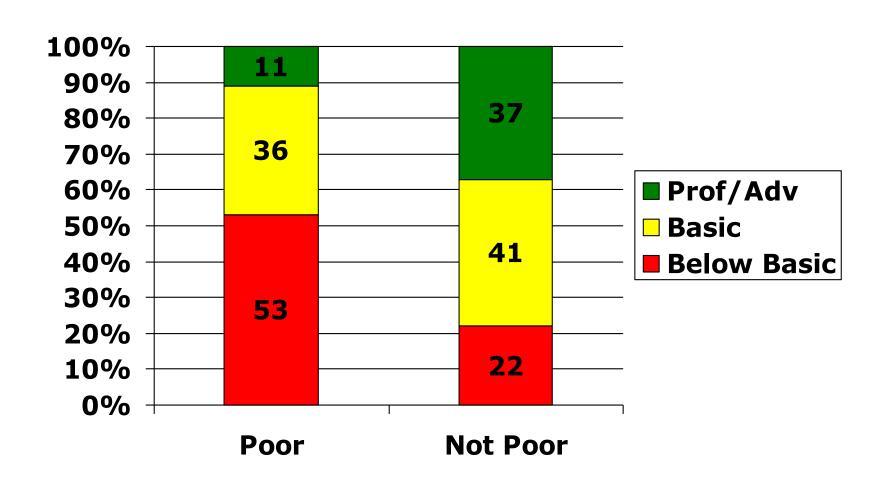


### Gaps By Income Levels

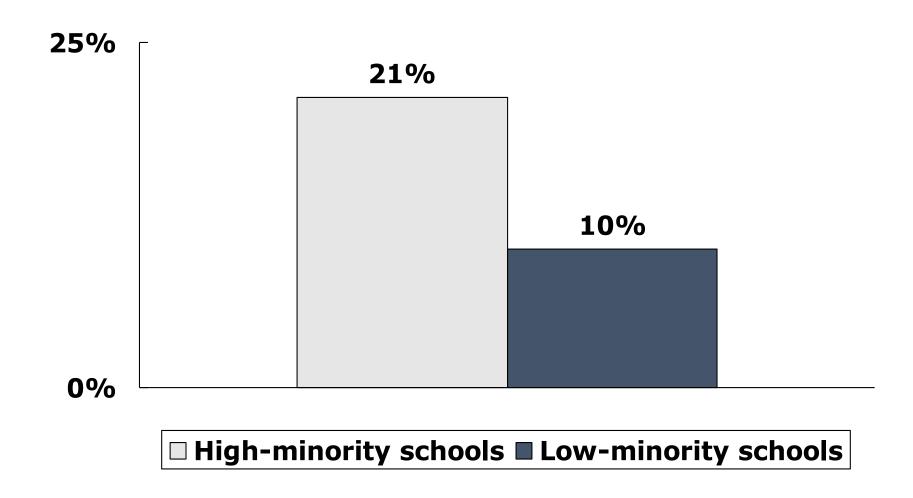
# By Family Income NAEP 4th Grade Reading 2003 (Nation)



# By Family Income NAEP 8th Grade Math 2003 (Nation)



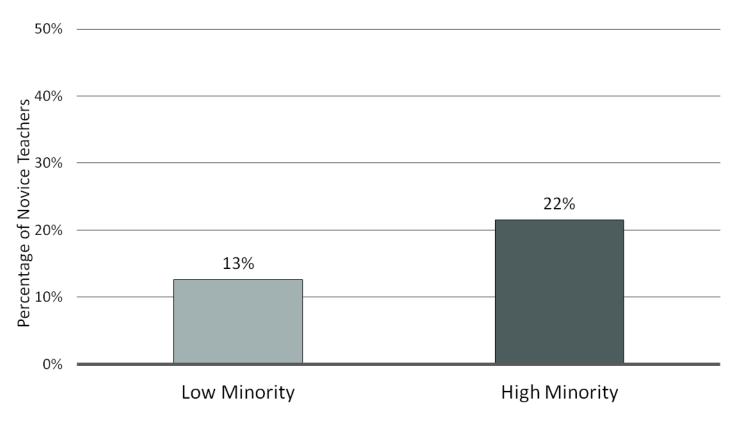
#### Minority Students Get More Inexperienced\* Teachers



<sup>\*</sup>Teachers with 3 or fewer years of experience. "High" and "low" refer to top and bottom quartiles.

Source: National Center for Education Statistics, "Monitoring Quality: An Indicators Report," December 2000.

## Students at High-Minority Schools More Likely to Be Taught by Novice Teachers



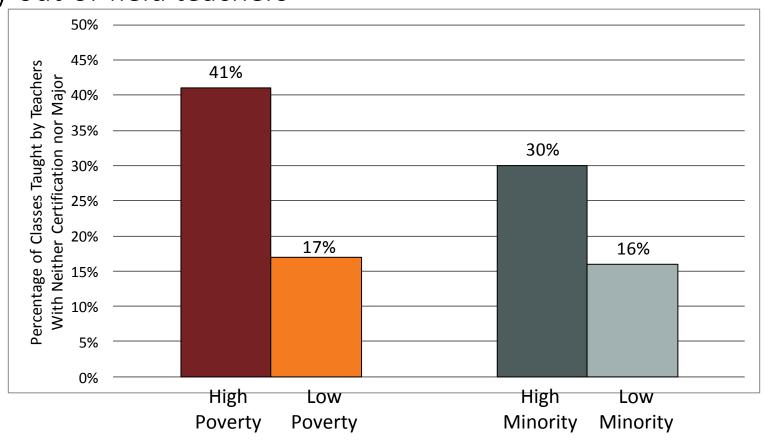
Note: Novice teachers are those with three years or fewer experience.

High-minority ≥ 75% students non-white. Low-minority ≤ 10% students non-white.

Analysis of 2003-2004 Schools and Staffing Survey data by Richard Ingersoll, University of Pennsylvania (2007)

#### LESS ACCESS TO THE BEST TEACHERS:

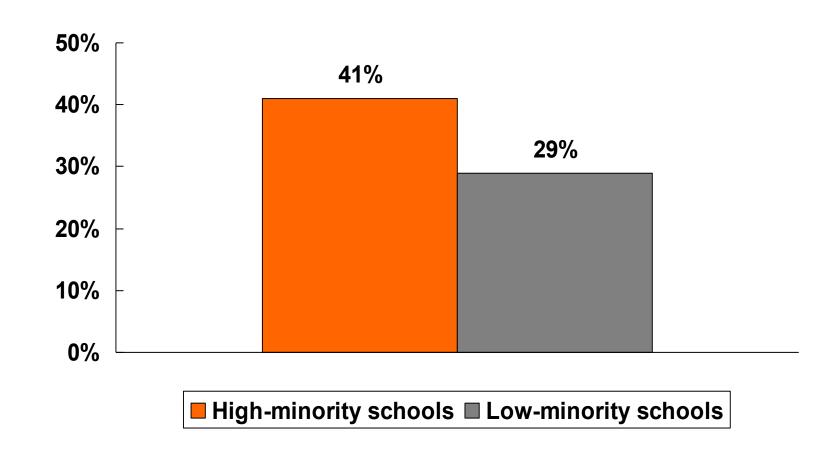
Core classes in high-poverty and high-minority secondary schools are more likely to be taught by out-of-field teachers



Note: Data are for secondary-level core academic classes (Math, Science, Social Studies, English) across United States. High-poverty  $\geq$ 75% of students eligible for free/reduced price lunch. Low-poverty school  $\leq$ 15% of students eligible. High-minority  $\geq$  75% students non-white. Low-minority  $\leq$  10% students non-white.

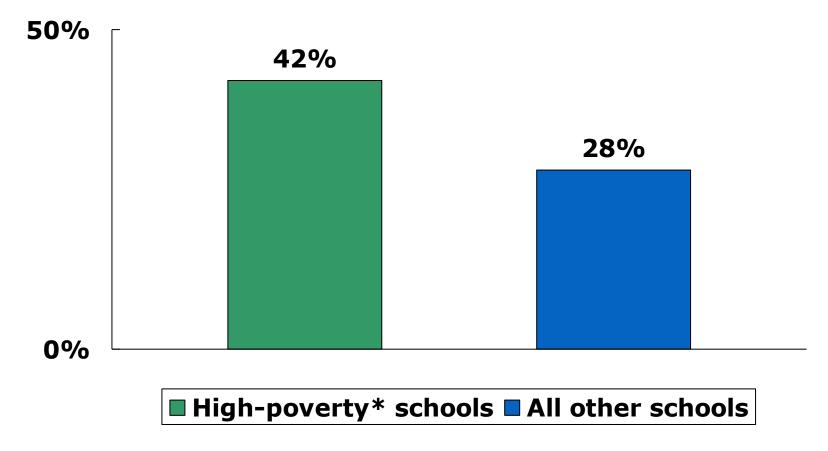
The Education Trust, Core Problems: Out-of-Field Teaching Persists in Key Academic Courses and High-Poverty Schools, (2008)

# More Math Classes in High-Minority High Schools are Taught by Teachers Lacking a Major in the Field



**Source:** Richard M. Ingersoll, University of Pennsylvania. Original analysis for the Ed Trust of 1999-2000 Schools and Staffing Survey.

#### High-Poverty Schools Get More Low-Scoring\* Teachers

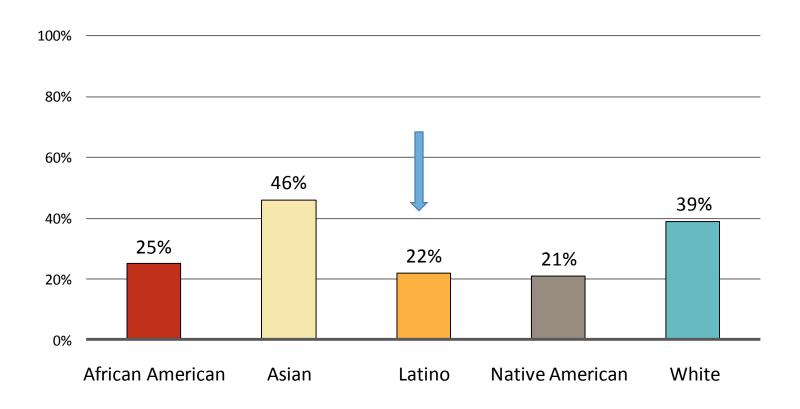


<sup>\*</sup>Teachers scoring in the bottom quartile on on SAT/ACT. "High-poverty" schools have 2/3 or more students eligible for reduced-price lunch.

**Source:** Education Week, "Quality Counts 2001," January 2001.

#### LESS ACCESS TO RIGOROUS COURSES:

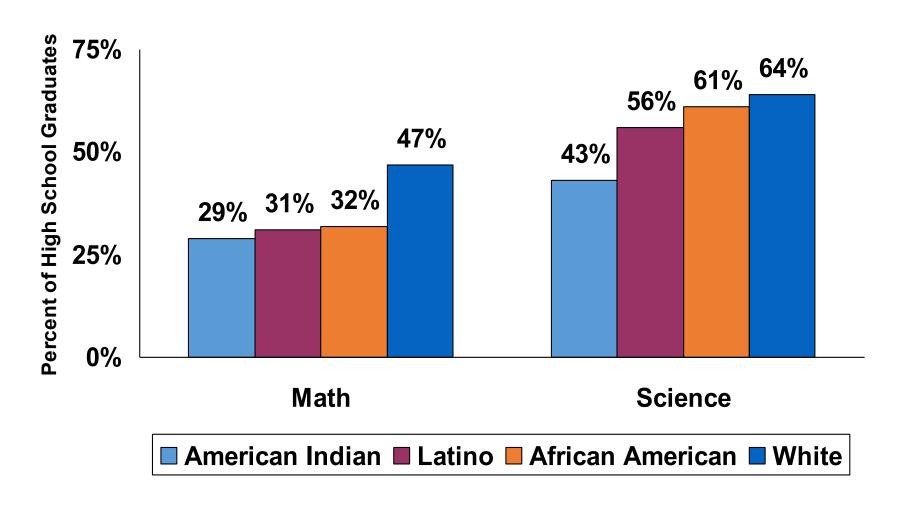
African American, Latino, Native American H.S. Grads Less Likely to Have Been Enrolled in Full College Prep Track



Note: Full College Prep track is defined as at least: 4 years of English, 3 years of math, 2 years of natural science, 2 years of social science and 2 years of foreign language.

J. Greene, Public High School Graduation and College Readiness Rates in the United States, Manhattan Institute (2003)

## Minority High School Graduates Are Less Likely to Have Completed Advanced Math and Science Courses



Source: U.S. Department of Education, NCES, *Condition of Education 2004*, p 148. Data from 2000 NAEP High School Transcript Study.

### .. and fewer funds

### Thank you!

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