

Prentice Hall Mathematics
Middle Grades Math

**National
Effect Size
Study**
Executive Summary

Guido G. Gatti
Principal Investigator

Evaluation Team
Nick Maravich, Kerri Kantner,
Terry Lederer, Ann Vilcheck



Middle Grades Mathematics National Effect-Size Study Executive Summary: An Evaluation of Student Performance of Prentice Hall Users vs. Non-Users

Background

Prentice Hall retained the services of Gatti Evaluation, Inc., an independent research firm that designs and performs evaluations of the effects of educational programs on student performance, to conduct a large-scale, national study on the impact of Prentice Hall *Middle Grades Mathematics* on student achievement levels.

Study Design

The quasi-experimental study design examined longitudinal test results of 444 *closely matched* user and non-user districts as a point of comparison across the same time periods and achievement tests. Ten states* were examined as part of the study. Because each state test is unique and measures different standard benchmarks, the analysis measured national percentile ranking (NPR), and percent of students meeting or exceeding state standards.

Matched Districts

Districts were matched based on the following demographic characteristics

- similar metropolitan location (i.e., urban, suburban, rural)
- enrollment, ethnicity (i.e., percent white/Caucasian school aged children)
- relative wealth (i.e., percent of school aged children receiving free or reduced priced lunch)
- time period in which the two groups were studied
- methods used to collect outcomes

Goals

The main goal of the study was to quantify the comparative impact of *Prentice Hall Middle Grades Mathematics* on district Math achievement for 6th, 7th, and 8th grade students. The results may be used to answer critical questions for potential users such as:

- How likely are school districts that adopt *Prentice Hall Middle Grades Mathematics* to see immediate gains in Math achievement on state sponsored norm referenced and criterion referenced tests?
- Are districts that adopt *Prentice Hall Middle Grades Mathematics* as likely or more likely to see achievement gains as similar non-users districts?

Results

80% of districts using Prentice Hall *Middle Grades Mathematics* saw a statistically significant increase in students meeting or exceeding state mathematics standards and increase in national percentile ranking after one or more years of program implementation. Prentice Hall users consistently performed as well or better than their counterparts.

If these results are generalizable, they indicate:

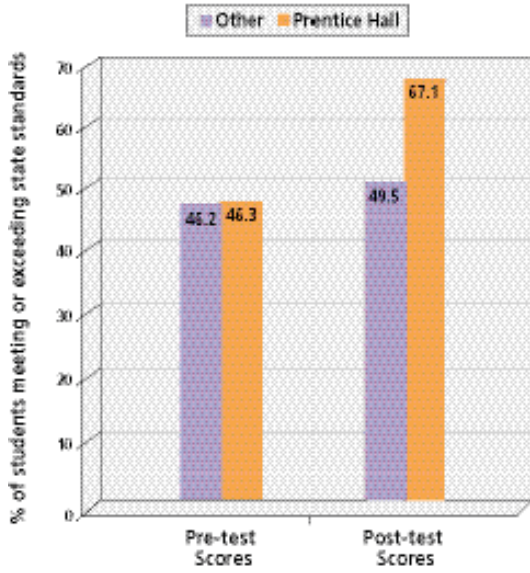
- Districts adopting *Prentice Hall Middle Grades Mathematics* are likely to see immediate gains in math achievement outcomes.
- Districts adopting *Prentice Hall Middle Grades Mathematics* are as likely or more likely to see statistically significant achievement gains as similar non-user districts.

Research indicates: Prentice Hall *Middle Grades Mathematics* is bringing more students up to state standards and increasing district rankings.

*States included in the study: MA, PA, TX, OH, FL, GA, MS, VA, AZ, CA

MIDDLE GRADES MATHEMATICS EFFECT-SIZE STUDY HIGHLIGHTS

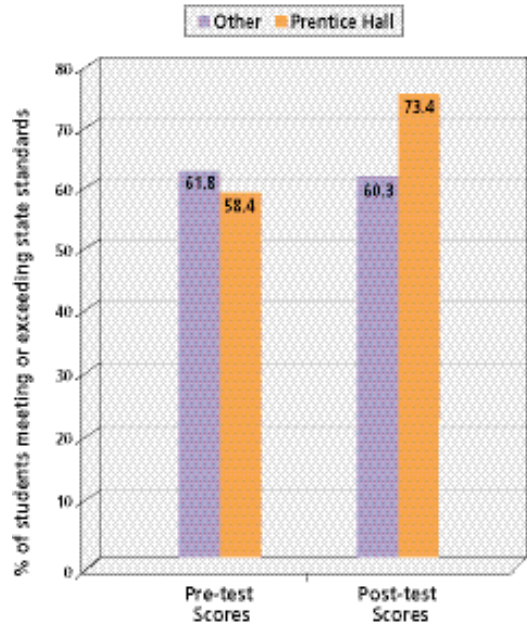
6th Grade



	<i>Other</i>	<i>PH</i>
Hispanic	1%	0%
African Am.	41%	43%
Caucasian	58%	56%
Asian	0%	0%
Poverty	26%	32%
Net Increase	7.1%	44.9%

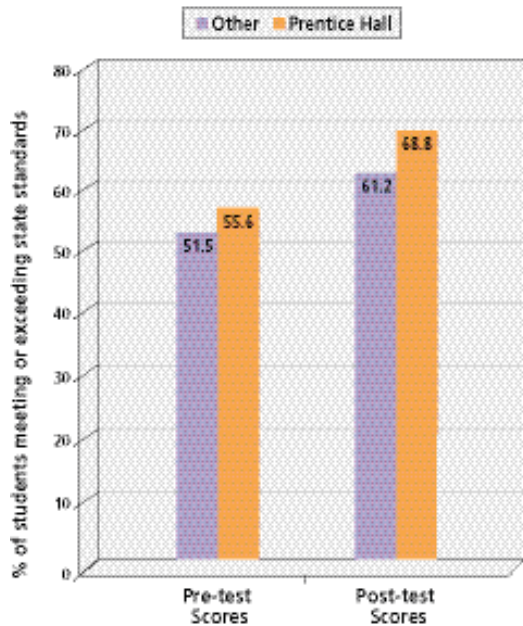
	<i>Other</i>	<i>PH</i>
Hispanic	0%	1%
African Am.	100%	99%
Caucasian	0%	0%
Asian	0%	0%
Poverty	32%	34%
Net Increase	-2.4%	25.7%

7th Grade



	<i>Other</i>	<i>PH</i>
Hispanic	2%	1%
African Am.	15%	19%
Caucasian	80%	78%
Asian	3%	1%
Poverty	17%	18%
Net Increase	18.8%	23.7%

8th Grade



	<i>Other</i>	<i>PH</i>
Hispanic	2%	1%
African Am.	15%	19%
Caucasian	80%	78%
Asian	3%	1%
Poverty	17%	18%
Net Increase	18.8%	23.7%