

1 Teacher Effectiveness Matters

Tennessee example

Student performance

Percentile

100

50

0

Age 8

Age 11

School year

Student with **high-performing**¹ teacher

90

Student with **low-performing**² teacher

37

53
percentile
points

1 Among the top 20% of teachers
2 Among the bottom 20% of teachers

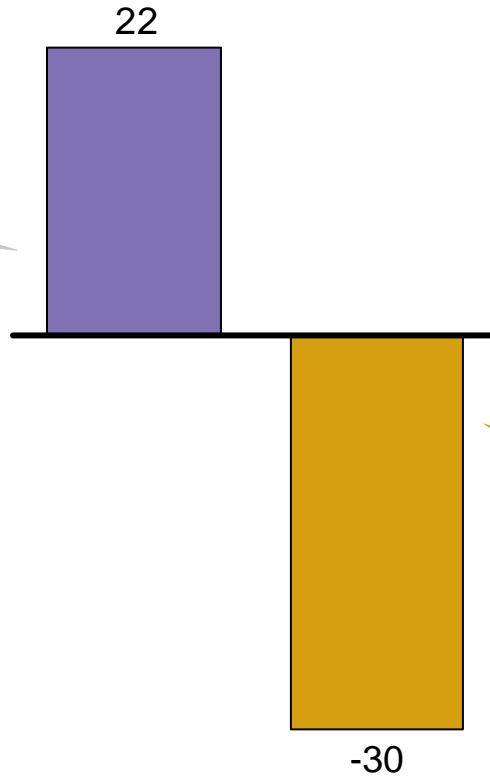
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Dallas example

Math assessment percentile rank – Change from 3rd grade through 5th grade

Percentage points

Dallas students assigned to three **highly effective** teachers in a row¹



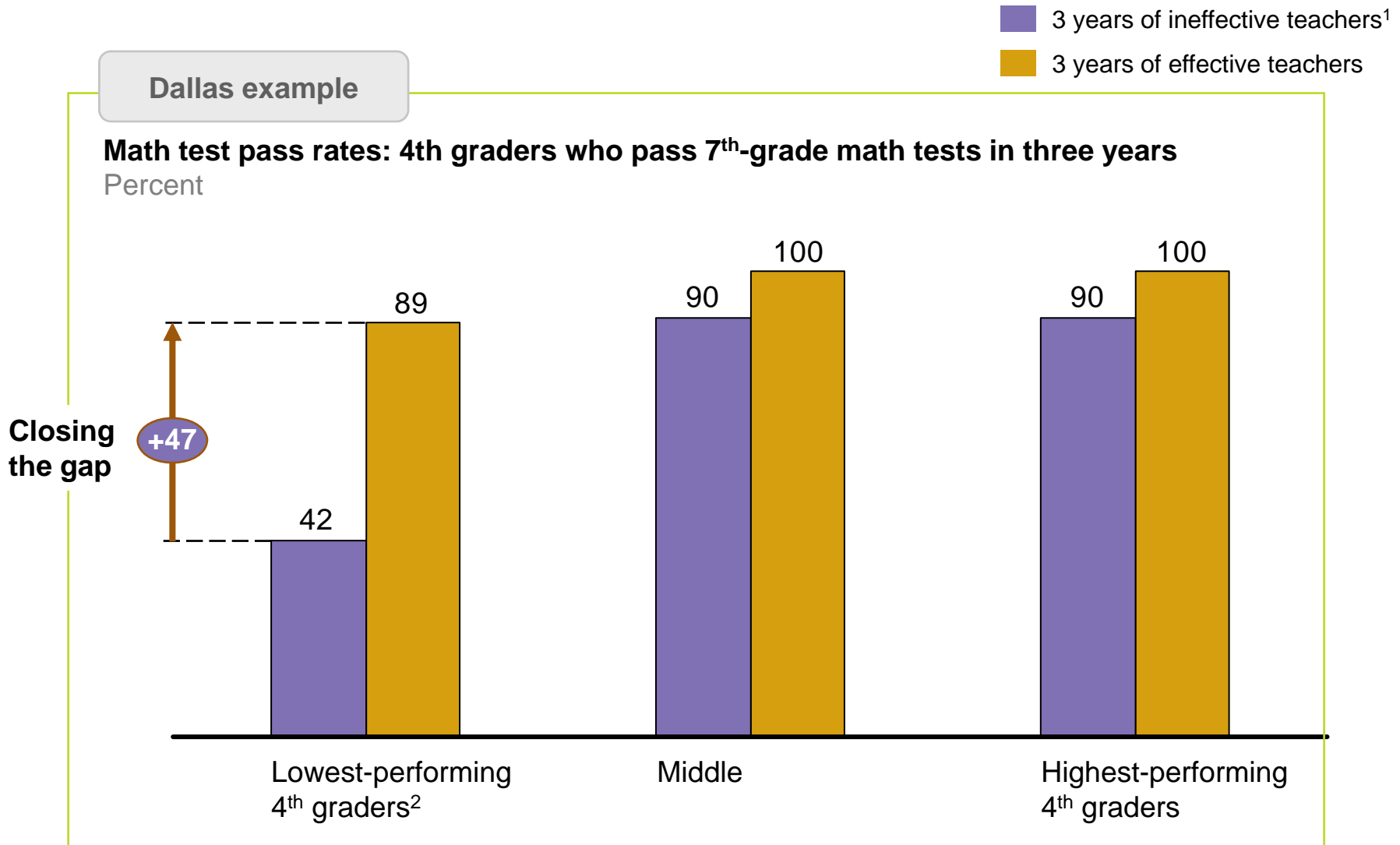
Dallas students assigned to three **highly ineffective** teachers in a row²

1 Students in this cohort had a teacher in the top two quintiles the first year and a teacher in the top quintile in the second and third years

2 Students in this cohort had a teacher in the bottom quintile each of the three years

SOURCE: Heather Jordan, Robert Mendro, and Dash Weerasinghe, *The Effects of Teachers on Longitudinal Student Achievement*, 1997.

1 Teacher Effectiveness Closes the Gap



¹ Effective teachers are defined as those who rank in the top two quintiles of all teachers in terms of effectiveness; source: value-added data from Dallas

² Low-, medium-, and high-performing students are identified by sorting all students into equal thirds based on past performance

SOURCE: The Education Trust, "Thinking K-16," 2004; Dallas Independent School District, 1997

1 Teacher Effectiveness Sources

Additional research examples on the importance of teacher effectiveness

- Hanushek, Eric; Rivkin, Steven; Kain, John, “Teachers, Schools and Academic Achievement,” *Econometrica*, 2005
- William L. Sanders and June C. Rivers, “Cumulative and Residual Effects of Teachers on Future Student Academic Achievement,” 1996
- Gordon, Robert; Kane, Thomas; Staiger, Douglas, “Identifying Effective Teachers Using Performance on the Job,” The Hamilton Project; The Brookings Institution, 2006
- Jordan, Heather; Mendro, Robert; Weerasingine, Dash, “Teacher Effects on Longitudinal Student Achievement,” 1997
- “High School Restructuring,” Boston Public Schools, 1998