

Also by Steve Leinwand

Sensible
Mathematics
A Guide for School Leaders

I would recommend this book to any group that is trying to initiate change in mathematics education. In particular, I would insist that any administrator . . . had his or her own copy.

—Mathematics Teacher

**Steven Leinwand** is Principal Research Analyst at the American Institutes for Research in Washington, D.C., where he supports a range of mathematics education initiatives and research. Steve served as Mathematics Supervisor in the Connecticut Department of Education for 22 years and is a former president of the National Council of Supervisors of Mathematics (NCSM).

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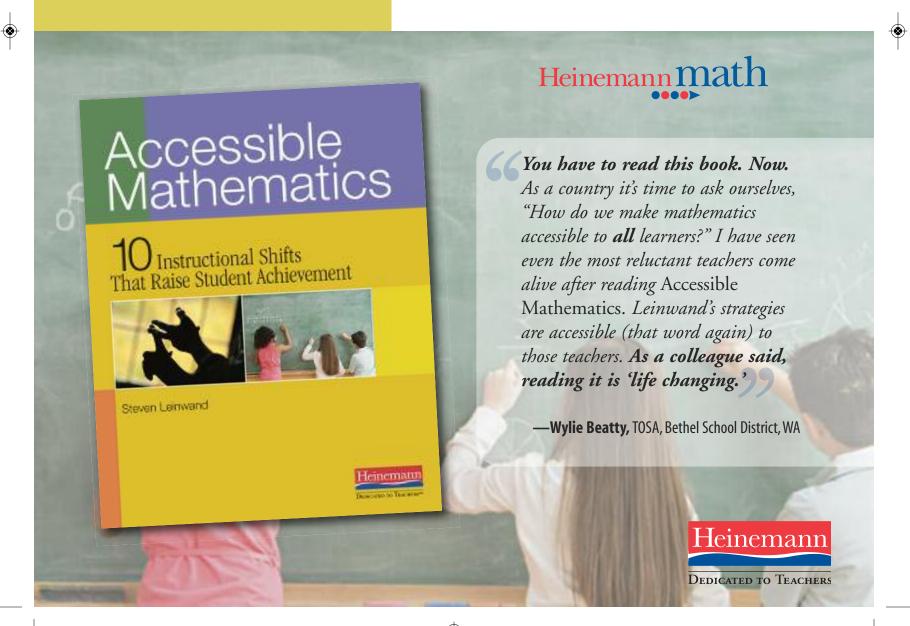
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# small shifts in your mathematics teaching can make a BIG difference in student learning.

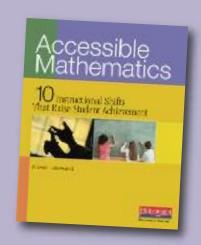
Ith over 30 years experience as a consultant, evaluator, and researcher, Steve Leinwand has observed over 2000 mathematics classes from kindergarten to calculus, looking for what works and what seems to make a difference. His conclusion? "It's instruction that makes all the difference."

By making a few powerful instructional shifts in how we plan, implement, and assess daily mathematics instruction, we can enhance our productivity and effectiveness. This book focuses on exactly those small shifts—the strategies that make for high-quality mathematics instruction that can and does work for far more students.

—Steven Leinwand

# The 10 Instructional Shifts Your road map to raising student achievement

- 1. Incorporate ongoing cumulative review into every day's lesson.
- 2. Adapt what we know works in our reading programs and apply it to mathematics instruction.
- 3. Use multiple representations of mathematical entities.
- 4. Create language-rich classroom routines.
- 5. Take every available opportunity to support the development of number sense.
- 6. Build from graphs, charts, and tables.
- 7. Tie the math to such questions as "How big?" "How much?" and "How far?" to increase the natural use of measurement throughout the curriculum.
- 8. Minimize what is no longer important.
- **9.** Embed the mathematics in realistic problems and real-world contexts.
- 10. Make "Why?" "How do you know?" and "Can you explain?" classroom mantras.



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