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Title: Helping Children Learn Mathematics

Authors: [Kilpatrick, Jeremy, \(ed.\)](#)
[Swafford, Jane, \(ed.\)](#)

Issue Date: 2002

Publisher: National Academy Press

Abstract: Results from national and international assessments indicate that school children in the United States are not learning mathematics well enough. Many students cannot correctly apply computational algorithms to solve problems. Their understanding and use of decimals and fractions are especially weak. Indeed, helping all children succeed in mathematics is an imperative national goal. However, for our youth to succeed, we need to change how we re teaching this discipline. Helping Children Learn Mathematics provides comprehensive and reliable information that will guide efforts to improve school mathematics from pre--kindergarten through eighth grade. The authors explain the five strands of mathematical proficiency and discuss the major changes that need to be made in mathematics instruction, instructional materials, assessments, teacher

education, and the broader educational system and answers some of the frequently asked questions when it comes to mathematics instruction. The book concludes by providing recommended actions for parents and caregivers, teachers, administrators, and policy makers, stressing the importance that everyone work together to ensure a mathematically literate society.

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Early childhood mathematics education research: Learning trajectories for young children, the axiom is, in the first approximation, unstable.
Children's mathematical thinking: A developmental framework for preschool, primary, and special education teachers, from the given textual fragments it is seen how the determinant of the system of linear equations repels the graph of the function, thereby increasing the power of the crust under many ridges.
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