Pre-K to grade 2 goals and standards: Achieving 21st-century mastery for all.

To accomplish early mastery of mathematics by all, restructuring of the goals, standards, instruction, and assessments for Pre-K through Grade 2 mathematics is required. The chapter summarizes central issues involved in doing this so that we can attain mastery by all children at the end of Grade 2. It is drawn from the extensive research literature, from the authors service on the National Academy of Sciences National Research Council committee on mathematics learning, and from his curricular research experience during 10 years in urban and suburban classrooms designing and revising a research-based world-class mastery curriculum for kindergarten through Grade 5. The chapter is divided into three parts: (A) Curricular and testing issues that can facilitate achieving mastery for all; (B) Research concerning teaching for mastery by all; (C) Design principles, curricular conceptual chunks, and a proposal for mastery goals for all.

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