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Knowing and Teaching Elementary

Mathematics is an important book. For those who are skeptical that mathematics education research can say much of value, it can serve as a counterexample. For those interested in improving precollege mathematics education in the U.S., it provides important clues to the nature of the problem.

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~~Knowing and Teaching Elementary Mathematics: Teachers ...~~

Knowing and Teaching Elementary Mathematics is a book that compares and contrasts American and Chinese approaches to teaching elementary mathematics ie arithmetic and elementary geometry. The author argues that Chinese teachers have a more profound understanding of elementary mathematics than their American counterparts and provides pretty good evidence of this.

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Every elementary math teacher should read it. In China, elementary math teachers only teach math. They have discussions and shared planning time. They actually spend a lot of time studying math. They don't assume they know it and are done. Because American elementary teachers

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Mathematics Teachers
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teach all subjects, we don't have time to do what they do, which is a shame.

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Knowing and Teaching Elementary Mathematics describes the nature and development of the knowledge that elementary teachers need to become accomplished mathematics teachers, and suggests why such knowledge seems more common in China than in the United States, despite the fact that Chinese teachers have less formal education than their U.S. counterparts.

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Knowing and teaching elementary mathematics, R Askey. Content: KNOWING AND TEACHING ELEMENTARY MATHEMATICS. BY RICHARD ASKEY THE TITLE of this article is also the title of a remarkable new book written by Liping Ma.¹ The basic format of the book is simple. Each of the first four chapters opens with a standard topic in elementary school mathematics, presented as a part of a situation that would arise naturally in a classroom.

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Their understanding of the mathematics they teach and--equally important--of the ways that elementary mathematics can be presented to students, continues to grow throughout their professional lives.

Teaching conditions in the United States, unlike those in China, militate against the development of elementary teachers' mathematical knowledge and its organization for teaching.

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Knowing and Teaching Elementary Mathematics by tygyn on 31.10.2020

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Knowing and Teaching Elementary Mathematics: Teachers Understanding of Fundamental Mathematics in China and the United States. Liping Ma Lawrence Erlbaum Associates, Inc., 1999 Cloth, \$45.00, ISBN 0-8058-2908-3 Softcover, \$19.95, ISBN 0-8058-2909-1 Notation: The reviewer will refer to the book under review as KTEM.

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Knowing and teaching elementary mathematics : teachers' understanding of fundamental mathematics in China and the United States. Responsibility. Liping Ma. Imprint. Mahwah, N.J. : Lawrence Erlbaum Associates, 1999. Physical description. xxv, 166 p. : ill. ; 24 cm.

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The balanced view is that, within a well planned and adequately resourced curriculum, mathematics lessons should incorporate a range of teaching styles according to what is being taught. Lessons should include a mixture of exposition, and individual and cooperative activities.

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Knowing and Teaching Elementary Mathematics. Reports that teaching elementary mathematics requires a much deeper mathematical knowledge than most experts have believed and that teachers must receive the training, textbooks, time, and support needed to develop this knowledge. Notes that U.S. mathematics teachers' knowledge is not nearly as robust as that of Chinese mathematics teachers, and it explains how Chinese teachers

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Teachers acquire their knowledge.

Understanding Fundamental Mathematics in China The United States

~~Knowing and Teaching Elementary Mathematics. ERIC~~

Department of Mathematics University of Toronto Toronto, ON M5S 3G3 Liping Ma, Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States. Lawrence Erlbaum Associates, Inc., 10 Industrial Avenue, Mahwah, NJ 07430-2262 (orders@erlbaum.com), 1999 (ISBN 0-8058-2909-1) xxv+166 pages

~~Knowing and Teaching Elementary Mathematics: Teachers ...~~

Department of Mathematics and the School of Education, University of Michigan. His areas of specialization include algebra (geometric methods in group theory), teacher education, and

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mathematical knowledge for teaching. 1
For example, Liping Ma's 1999 book,
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Mathematics, broadened interest in the
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