

## Knowing And Teaching Elementary Mathematics Teachers Understanding Fundamental In China The United States Liping Ma

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### Knowing And Teaching Elementary Mathematics

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.

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

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

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

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.

### Amazon.com: Knowing and Teaching Elementary Mathematics ...

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.

### Knowing and Teaching Elementary Mathematics

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 acquire their knowledge.

### Knowing and Teaching Elementary Mathematics. - ERIC

It disabuses people of the notion that elementary school mathematics is simple—or easy to teach. It cautions us, as Ma says in her conclusion, that “the key to reform...[is to] focus on substantive mathematics.” And at the book’s heart is the idea that student understanding is heavily dependent on teacher understanding.

### K AND T ELEMENTARY MATHEMATICS - Achievethecore.org

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. Series. Studies in mathematical thinking and learning.

### Knowing and teaching elementary mathematics : teachers ...

Provide as little information as possible but enough so students can be productive. Effective math teaching supports students as they grapple with mathematical ideas and relationships. Allow them to discover what works and experience setbacks along the way as they adopt a growth mindset about mathematics. 14.

### 15 Strategies in Teaching Mathematics - WeAreTeachers

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.

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

Knowing and Teaching Elementary Mathematics. Partly this noninterest in mathematical expertise reflects an attitude widespread among educators [Hi] that “facts”, and indeed all subject matter, are secondary in importance to a generalized, subject-independent teaching skill and the development of “higherorder thinking”.

### Knowing and Teaching Elementary Mathematics | Semantic Scholar

It disabuses people of the notion that elementary school mathematics is simple—or easy to teach. It cautions us, as Ma says in her conclusion, that "the key to reform... [is to] focus on substantive mathematics." And at the book's heart is the idea that student understanding is heavily dependent on teacher understanding.

### Knowing and teaching elementary mathematics, R Askey - doc ...

Knowing a student as a mathematics learner is complex. An effective mathematics teacher quickly builds a picture of their students by progressively providing opportunities to demonstrate what he/she is learning. This way, teachers update and deepen their understanding of individual students.

### What is Effective Teaching of Mathematics?

Following the small-group discussions on the preworkshop assignment from Liping Ma's book Knowing and Teaching Elementary Mathematics (1999), a panel set the stage for thinking about the two overarching questions that were the focus of the workshop: What is the mathematical knowledge teachers need to know to teach well?

### Read "Knowing and Learning Mathematics for Teaching ...

Liping Ma's Knowing and Teaching Elementary Mathematics explores this tendency by comparing American and Chinese teachers's understanding of elementary arithmetic principles. Originally Ma's doctoral dissertation, the book is in its second (anniversary) edition, and has sold 70,000 copies, no mean feat for a technical book about math education.

### Knowing and Teaching Elementary Mathematics - Exodus Books

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