

***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. ...

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

Knowing and Teaching Elementary Mathematics Reviewed by Roger Howe 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

### **Knowing and Teaching Elementary Mathematics**

Knowing and Teaching Elementary Mathematics, Chapter 5: Teachers' Subject Matter Knowledge Of course, the reason that a profound understanding of elementary mathematics is possible is that first of all, elementary mathematics is a field of depth, breadth, and thoroughness. Teachers with this deep, vast, and thorough

### **Knowing and Teaching Elementary Mathematics, Chapter 5 ...**

Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States. Liping Ma. ... From this book it appears that this 'balanced view' is reflected in the approach to mathematics teaching in Chinese elementary schools — although the lessons are referred to as 'carefully ...

### **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.

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

of the mathematics taught in elementary school. In my study, I used the TELT interview questions. The main reason for using these instruments is their relevance to mathematics teaching. As Ed Begle recounts in *Critical Variables in Mathematics Education*, earlier studies often measured elementary and

### **Knowing and Teaching Elementary Mathematics**

Buy Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States (Studies in Mathematical Thinking and Learning Series): Read 14 Kindle Store Reviews - Amazon.com

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

Using concrete examples from Liping Ma's famous book, mathematician Richard Askey explores in this article from *American Educator* what it takes to achieve deeper mathematics learning. Send Feedback Knowing and Teaching Elementary Mathematics

### **Achievethecore.org :: Knowing and Teaching Elementary ...**

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 ...**

amount of time spent learning mathematics, mathematics curricula. Two motivating examples In teaching division with fractions, how to explain  $13 \div 4$  divided by  $1 \div 2$ . Can one make up a good story?

In a visit to an elementary school with a reputation of high quality education, Ma observed that a student mistook that 7 yards 5 inches is 89 inches.

### **Knowing and Teaching Elementary Mathematics Introduction**

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 ...

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

Read the full-text online edition of Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States (1999). Home » Browse » Books » Book details, Knowing and Teaching Elementary Mathematics: ... Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental ...

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

really know and be able to teach elementary school mathematics. As the word "understanding" continues to be bandied about loosely in the debates over math education, this book provides a much-needed ground-ing. It disabuses people of the notion that elementary school mathematics is simple—or easy to teach. It cau-

### **K AND T ELEMENTARY MATHEMATICS - DePaul University**

The teacher book that really opened my eyes to the fact that many elementary teachers do not understand the mathematics they teach was Knowing and Teaching Elementary Mathematics by Liping Ma. This book looks at teachers' understandings of fundamental mathematics concepts in the United States and China.

### **The Elementary Math Maniac: Knowing and Teaching ...**

Buy Knowing and Teaching Elementary Mathematics: Teachers' Understanding of Fundamental Mathematics in China and the United States (Studies in Mathematical Thinking and Learning Series) 2 by Liping Ma (ISBN: 8581000035640) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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

Department of Mathematics and the School of Education, Uni-versity of Michigan. His areas of specialization include algebra (geometric methods in group theory), teacher education, and mathematical knowledge for teaching. 1 For example, Liping Ma's 1999 book, Knowing and Teaching Elementary Mathematics, broadened interest in the question of ...

### **Knowing Mathematics for Teaching - Deep Blue**

inclusion in Humanistic Mathematics Network Journal by an authorized administrator of Scholarship @ Claremont. For more information, please contact scholarship@cuc.claremont.edu. Recommended Citation Howe, Roger (2000) "Book Review: Knowing and Teaching Elementary Mathematics by Liping Ma," Humanistic Mathematics Network Journal: Iss. 23, Article 10.

### **Book Review: Knowing and Teaching Elementary Mathematics ...**

She explores how Chinese teachers' understanding of mathematics and its teaching contributes to their student's success, documents some of the factors that support the growth of Chinese teachers' mathematical knowledge, and proposes that it seems difficult, if not impossible, for elementary teachers in the United States to develop a deep ...

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

Participants were also asked to read material from Chapter 1 and Chapter 4 of Liping Ma's book Knowing and Teaching Elementary Mathematics. Ma used the two tasks above to interview Chinese elementary teachers and then compared the Chinese teachers' responses to those obtained by the

Michigan State researchers who had interviewed U.S. teachers.

**Pre-Workshop Tasks | Knowing and Learning Mathematics for ...**

This book features a comparative study of American and Chinese mathematics teachers. How teachers understand the content of mathematics and their practice of mathematics teaching is examined. The differences between Chinese and U.S. teachers' knowledge of mathematics for teaching are documented, and how Chinese teachers' understanding of mathematics and its teaching contributes to their ...

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