

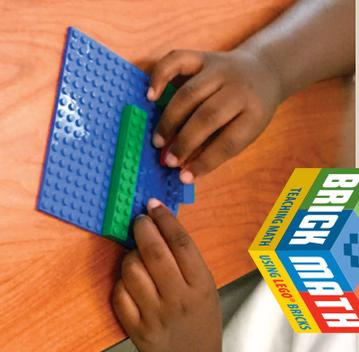


**There's no such thing as a student who is bad at math. They just need to be taught using techniques that are good for teaching.**  
—Dr. Shirley Disseler, author of BrickMath

**About the Author of the Brick Math Series**

Dr. Shirley Disseler is Associate Professor at High Point University and Chair of the Department of Elementary and Middle Grades Education, and the STEM Coordinator for the BA to MEd Program. She has over 25 years of educational experience, from elementary school teaching through higher education, including gifted education and exceptional children.

Dr. Disseler works as a LEGO® Education Academy Trainer, and has been instrumental in the development and testing of the LearnToLearn, MoreToMath, and WeDo 2.0 products developed in Billund, Denmark. She serves on the LEGO® Education Ambassadors Panel and is the trainer for the High Point University Teacher Academy for LEGO® Education.



**Ordering Information**

Books and brick sets, direct from publisher [BrickMathSeries.com/product](http://BrickMathSeries.com/product) School purchase orders [BrickMathSeries.com/schools](http://BrickMathSeries.com/schools) Books also available at Amazon Kindle Teachers Pay Teachers

**F A Q**

**Who can teach with Brick Math?**

Brick Math works in a whole-class setting, in small groups, and individually. Classroom teachers, parents, and math specialists use the program as a teaching tool for all students. The curriculum works well for helping students who haven't been able to learn math in more traditional ways.

**What makes Brick Math so effective?**

Students learn the "why" behind the math by modeling concepts with bricks. The Teacher Edition guides the teacher through the lessons clearly and in sequence. The Student Edition provides the workspace for drawing brick models and includes an assessment for each chapter.

**What bricks are used to teach with Brick Math?**

Specially designed Brick Math sets of bricks are available from Brigantine Media. The bricks are packed in a divided storage box and the set includes a baseplate for each student.

If you already have LEGO® bricks at school or at home, check the "Suggested Bricks" list to see if you have what you need.

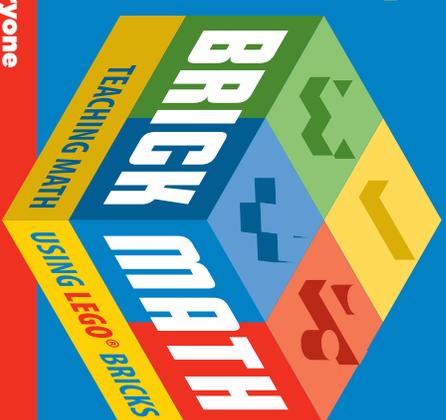


**Brigantine Media/Compass Publishing**  
211 North Avenue, St. Johnsbury, VT 05819  
[BrickMathSeries.com](http://BrickMathSeries.com)  
[nell@brigantinemedia.com](mailto:nell@brigantinemedia.com)  
802-751-8802 (phone)  
802-751-8804 (fax)  
Teaching Math Using LEGO Bricks

**NEW!** Complete K-6 Curriculum

**Build Math Success!**

USING LEGO® BRICKS



**"Why doesn't everyone learn math this way?"—Student**



- Complete K-6 math curriculum uses **LEGO®** bricks to model math concepts
- Counting and Cardinality
  - Addition
  - Subtraction
  - Multiplication
  - Division
  - Basic Fractions
  - Basic Measurement
  - Fraction Multiplication
  - Fraction Division
  - Advanced Measurement and Geometry
  - Decimals
- Program includes teacher's guides, student books, brick sets, and professional development**

[BrickMathSeries.com](http://BrickMathSeries.com)



# Complete K-6 Hands-On Math Curriculum

**BRICK MATH** is a challenging, rigorous, and engaging way to motivate students to enjoy math and learn. Developed from theories of Constructionism and brain research, the program has been used and tested extensively. New research shows an average gain from pre-test to post-test of 7-9 points when using the Brick Math program versus more traditional teaching methods.

**Test scores IMPROVE!**

This program encourages exploration within the academic objectives and includes a critical self-reflection aspect when students are asked to explain their thinking. I would recommend these tests and the companion student books to all teachers of mathematics.  
—Kelli Coons, Instructional Coach

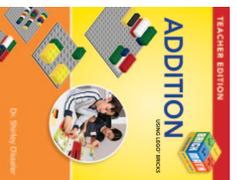
I finally know what a fraction is. I can see it!  
—Student

## BRICK MATH BRICK SET

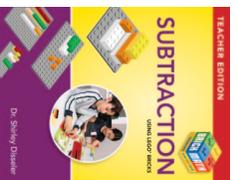
- Designed for two students to share
- Contains bricks specially chosen for the Brick Math program
- Packed in a sturdy divided storage box
- Two baseplates included



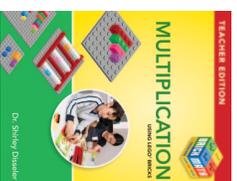
- ### COUNTING AND CARDINALITY
- Using LEGO® Bricks
- pattern recognition
  - skip-counting
  - jump numbers
  - more than and less than
  - one-to-one correspondence
  - number fluency



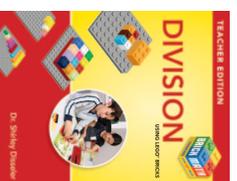
- ### ADDITION
- Using LEGO® Bricks
- place value
  - adding sets
  - decomposing numbers
  - adding within 20
  - solving for missing terms



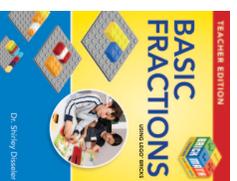
- ### SUBTRACTION
- Using LEGO® Bricks
- meaning of minuend, subtrahend, and difference
  - subtracting within 20
  - decomposing numbers
  - solving for missing terms



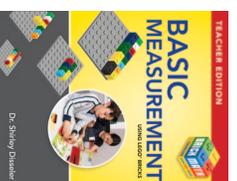
- ### MULTIPLICATION
- Using LEGO® Bricks
- repeated addition
  - meaning of multiplicand, multiplier, factor, and product
  - basic multiplication facts
  - one-digit multiplication
  - two-digit and larger multiplication



- ### DIVISION
- Using LEGO® Bricks
- equal shares/partitive division
  - repeated subtraction/quotient division
  - meaning of divisor, dividend, and quotient
  - fact families
  - two-digit and larger division



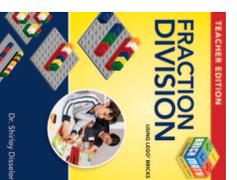
- ### BASIC FRACTIONS
- Using LEGO® Bricks
- defining wholes
  - different-sized wholes
  - adding and subtracting fractions
  - like and unlike denominators
  - mixed numbers
  - equivalent fractions
  - meaning of numerator and denominator



- ### BASIC MEASUREMENT
- Using LEGO® Bricks
- money
  - time
  - customary liquid measures
  - basic metric measures
  - basic perimeter
  - basic area
  - standard and non-standard units



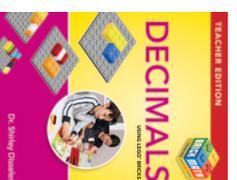
- ### FRACTION MULTIPLICATION
- Using LEGO® Bricks
- iteration
  - area models
  - multiplying a fraction by a whole number
  - multiplying mixed fractions
  - commutative property of multiplication with fractions



- ### FRACTION DIVISION
- Using LEGO® Bricks
- dividing a fraction by a fraction
  - dividing a whole number by a fraction
  - dividing a mixed number by a fraction



- ### ADVANCED MEASUREMENT AND GEOMETRY
- Using LEGO® Bricks
- relationship between perimeter and area
  - decomposing irregular shapes to find area
  - surface area
  - volume
  - relationship between surface area and volume



- ### DECIMALS
- Using LEGO® Bricks
- place value
  - expanded form
  - money equivalents
  - adding and subtracting decimals
  - multiplying and dividing decimals
  - percentage and fraction equivalents

Brick Math has taken off! I have never seen parents so excited about how they can help their children learn.  
—Deana Coley, Davidson County schools, North Carolina

Professional Development Available | [Brick Math Series.com](http://BrickMathSeries.com) | 802-751-8802