



Lower Elementary Math 1 Demonstration Videos

The Basic Operations

Addition

- Activity 1 - Finding Sums on the Addition Strip Board
- Activity 2 - Finding Essential Combinations on the Addition Strip Board
- Activity 3 - Adding with Zero on the Addition Strip Board
- Activity 4 - Doubling Addends on the Addition Strip Board
- Activity 10 - Addition Snake Game

Subtraction

- Activity 1 - Using the Subtraction Strip Board
- Activity 6 - Subtraction Snake Game

Multiplication

- Multiplication Bead Board Demonstration
- Activity 1 - Using the Multiplication Bead Board
- Activity 2 - Finding Combinations of Numbers on the Multiplication Bead Board
- Activity 8 - Skip Counting Using the Short Bead Chain
- Activity 9 - Skip Counting Using the Long Bead Chain
- Activity 10 - Building the Decanomial, Vertically
- Activity 10 - Building the Decanomial, Horizontally
- Activity 11 - Building the Decanomial, Diagonally

Division

- Activity 1 - Unit Division Board Demonstration
- Activity 2 - Using the Unit Division Board

Multiplication and Division: Moving Toward Abstraction

Multiples and Factors

- Colored Bead Bars Demonstration
- Activity 1 - Finding Multiples Using Colored Bead Bars
- Algebraic Pegboard Demonstration
- Activity 2 - Learning About Multiples Using the Algebraic Pegboard
- Activity 3 - Finding the Lowest Common Multiple
- Activity 7 - Learning About Factors Using the Algebraic Pegboard
- Activity 9 - Identifying Prime Factors Using the Algebraic Pegboard

Division with the Golden Bead Material

- Golden Bead Material Demonstration
- Activity 1 - Doing Division with the Golden Beads, Dividing Units by Units
- Activity 1 - Doing Division with the Golden Beads, Dividing Tens by Units
- Activity 2 - Practicing Division with the Golden Bead Material
- Activity 3 - Dividing a 3-Digit Dividend by a 2-Digit Divisor with the Golden Bead Material



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Hierarchies of Numbers

Small Bead Frame

- Small Bead Frame Demonstration
- Activity 1 - Exploring the Small Bead Frame
- Activity 2 - Using the Small Bead Frame and Notation Paper
- Activity 3 - Adding with the Small Bead Frame
- Activity 4 - Adding with Exchanging, Using the Small Bead Frame
- Activity 5 - Subtracting Using the Small Bead Frame
- Activity 6 - Subtracting with Exchanging, Using the Small Bead Frame
- Activity 7 - Multiplying with the Small Bead Frame

Large Bead Frame

- Large Bead Frame Demonstration
- Activity 8 - Exploring the Large Bead Frame
- Activity 9 - Using the Large Bead Frame and Notation Paper
- Activity 10 - Multiplying with the Large Bead Frame

Flat Bead Frame

- Flat Bead Frame Demonstration
- Activity 11 - Exploring the Flat Bead Frame
- Activity 12 - Multiplying by a 1-Digit Multiplier Using the Flat Bead Frame

Place Value Multiplication

- Checkerboard Demonstration
- Activity 1 - Exploring the Checkerboard, Introducing the Material
- Activity 1 - Exploring the Checkerboard, Year 2 Activity
- Activity 1 - Exploring the Checkerboard, Year 3 Activity
- Activity 1 - Exploring the Checkerboard, Reading Numbers on the Checkerboard
- Activity 1 - Exploring the Checkerboard, Adding Numbers on the Checkerboard

Place Value Multiplication (cont'd)

- Activity 2 - Multiplying by a 1-Digit Multiplier, Using the Checkerboard
- Activity 3 - Multiplying by a 2-Digit Multiplier, Using the Checkerboard
- Activity 5 - Multiplying a 4-Digit Number by a 1-Digit Multiplier, Using the Bank Game

Long Division

- Long Division Material Demonstration
- Activity 1 - Exploring the Long Division Material
- Activity 2 - Dividing by 1-Digit Numbers Without Remainders, Using the Long Division Material
- Activity 3 - Dividing by 1-Digit Numbers With Remainders, Using the Long Division Material
- Activity 4 - Dividing by 2-Digit Numbers, Using the Long Division Material