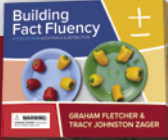


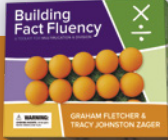
Building Fact Fluency toolkits (*Addition & Subtraction* and *Multiplication & Division*) help students develop deep conceptual understanding of the operations and fact fluency at the same time. Research-based and standards-aligned, each toolkit invites students to think strategically about the mathematics through multiple, rich, real-world contexts. These accessible contexts allow students to see how number facts connect to a wide variety of mathematical situations, explore the properties of the operations, and build a foundation of strategies they can draw from efficiently and with confidence.

Real-world contexts set the stage for rich conversations and mathematical thinking

The *Building Fact Fluency* toolkits are designed around multiple contextual themes supported by a string of related routines, tasks, and games. See next page for a quick look at how lesson string components address key math focus areas in addition, subtraction, multiplication, and division.



| Addition & Subtraction Grades K–2 | | | |
|--------------------------------------|----------|---------|--------------|
| STRATEGY | CONTEXT | | |
| SUMS WITHIN 5 | Crayons | Marbles | Toy Cars |
| PLUS AND MINUS 0, 1, 2 | Shells | Bears | Blocks |
| COMBINATIONS FOR 10 | Buttons | Markers | Peppers |
| 10 AND SOME MORE | Markers | Pizza | Coins |
| DOUBLES | Lemonade | Apples | Eggs |
| NEAR DOUBLES | Apples | Eggs | Chopsticks |
| PRETEND-10/ MAKE-10 | Markers | Pizza | Tennis Balls |

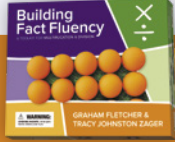





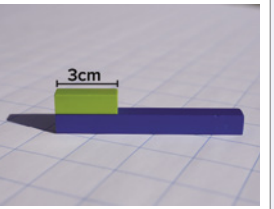


| Multiplication & Division Grades 3–5 | | | |
|---|--------------|-----------------|-------------|
| FACTOR | CONTEXT | | |
| 2s | Toy Bikes | Honey Bears | Shoes |
| 10s | Bowling | Pencils | Bracelets |
| 5s | Grapes | Crayons | Erasers |
| 4s | Peaches | Coin Collection | Basketballs |
| 3s | Tennis Balls | Blocks | Bobbers |
| 6s | Eggs | Cupcakes | Toy Cars |
| 9s | Stickers | Tulips | Bookshelves |
| 8s | Apple Slices | Paints | Emojis |
| 7s | Lemons | Gumballs | Balloons |
| SQUARES & NEAR SQUARES | Sushi | Origami | Golf Balls |

Note: 0s and 1s are interwoven throughout each factor

See page 2 to see how just three of the *Building Fact Fluency* routines are used across contexts in both the *Addition & Subtraction* and *Multiplication & Division* toolkits.

Here's a look at just three of the numerous routines, tasks, and games that make up the string of lessons for each context.

| | Addition & Subtraction Grades K–2  | | | Multiplication & Division Grades 3–5  | | |
|-------------------------------------|--|--|---|--|--|--|
| SAMPLE CONTEXT | Bears | Peppers | Apples | Grapes | Paints | Blocks |
| FOCUS | Plus or Minus 0, 1, 2 | Combinations for 10 | Near Doubles | Equal Groups | Arrays | Multiplicative Comparison and Volume |
| IMAGE TALK |  |  |  |  |  |  |
| TOOL TALK |  |  |  |  |  |  |
| NUMBER TALK | $2 + 2$ $2 + 3$ $3 + 2$ | $5 + 5$ $4 + 6$ $3 + 7$ $8 + 2$ | $10 + 10$ $9 + 10$ $8 + 10$ | $5 + 5 + 5 + 5$ 5×4 $5 \times 2 \times 2$ | 8×1 8×5 $(8 \times 1) + (8 \times 5)$ 8×6 | 3×3 $3 \times 3 \times 3$ $3 \times 3 \times 3 \times 3$ |
| OTHER ROUTINES IN THE LESSON STRING | Addition & Subtraction Grade K–2 Lesson Strings also include: Anchor Problems, Contextualized Practice Problems, Games, 3-Act Math Tasks | | | Multiplication & Division Grade 3–5 Lesson Strings also include: Contextualized Practice Problems, Games, True or False, Same or Different, Card Talks, 3-Act Math Tasks, Open Middle® Problem | | |