

	Big Ideas	Kindergarten	First Grade	Second Grade	Third Grade
Develop Number Sense	Understand Reasonableness	<i>Blow Your House Down</i> K.MD.1, K.MD.2	<i>When 5 is Big</i> Mathematical Practice 2	<i>Is it Reasonable?</i> Mathematical Practice 2, 2.NBT.4	<i>That's Crazy</i> Mathematical Practice 2
	Algebraic Thinking	<i>Finish my Set</i> K.OA.2	<i>Where Did I Start?</i> 1.OA.1, 1.OA.8	<i>Input and Output</i> 2.OA.1	<i>Parts Unknown</i> 3.OA.4
	Estimation (related to measurement)	<i>In Ten Seconds</i> K.CC.3, K.CC.4, K.CC.6	<i>Measure Your Steps</i> 1.MD.2	<i>Three Questions</i> 2.MD.3	<i>Cooking Estimation</i> 3.MD.2
Develop Meanings for Operations	Create word problems	<i>In My Pond, Part 1</i> K.OA.1, K.OA.2	<i>Restaurant Story Problems</i> 1.OA.1, 1.OA.2	<i>What's the Question?</i> 2.OA.1, 2.OA.2	<i>The Answer Is</i> 3.NBT.2
	Solve word problems	<i>Putting Away Dishes</i> K.OA.1, K.OA.2	<i>The Final Price Is</i> 1.OA.1, 1.OA.2	<i>Table Times</i> 2.OA.4	<i>Price per Pound</i> 3.OA.1
Build Strategies for Whole-Number Computation	Mental Math	<i>One Less</i> K.OA.1, K.OA.2	<i>Ten More</i> 1.NBT.5, 1.OA.5	<i>One Hundred More</i> 2.NBT.2, 2.NBT.8	<i>Now is the Time</i> 3.MD.1
	Composing and decomposing numbers	<i>What's Left?</i> K.NBT.1	<i>Stacking Pennies</i> 1.NBT.2, 1.NBT.4	<i>What's in a Dollar?</i> 2.MD.8	<i>Broken Calculator Keys</i> 3.NBT.2, 3.OA.8
	Flexibility with numbers	<i>Give Me Five</i> K.OA.3	<i>Ten Scoops</i> 1.OA.2, 1.OA.3, 1.OA.6	<i>All About My Number</i> 2.NBT.1, 2.NBT.3	<i>An Array of Brownies</i> 3.OA.1, 3.OA.3
Develop Whole-Number and Place-Value Concepts	Compare and order numbers	<i>Biggest Number</i> K.CC.7	<i>Greater Than</i> 1.NBT.3	<i>Less Than</i> 2.NBT.4	<i>Round Showdown</i> 3.NBT.1
	Represent numbers	<i>Three Ways to Show a Number</i> K.CC.3	<i>I'm Thinking of a Number</i> 1.NBT.3	<i>Mystery Number</i> 2.NBT.1	<i>Fractions on a Number Line</i> 3.NF.2a
	Number Relationships	<i>More or Less</i> K.CC.6	<i>How many Tens in 50?</i> 1.NBT.2	<i>Even or Odd?</i> 2.OA.3	<i>Say It a Different Way</i> 3.OA.1

Master the Basic Facts	Build Fluency	<i>Cats and Dogs</i> K.CC.3	<i>Double Up</i> 1.OA.6	<i>Coupon Savings</i> 2.NBT.6	<i>Product Practice</i> 3.OA.7
	Automaticity	<i>Quick Dots</i> K.CC.5	<i>Domino Addition</i> 1.OA.5, 1.OA.6	<i>Domino Subtraction</i> 2.OA.2, 1.5G	<i>Domino Division</i> 3.OA.4, 3.OA.6
Shapes and Fractions	Attributes of Shapes	<i>Is it a Triangle?</i> K.G.2, K.G.5	<i>Canned</i> 1.G.2	<i>Mystery Shape</i> 2.G.1	<i>Shape Up!</i> 3.NF.1, 3.G.2
	Partition Fractions	<i>Making Trail Mix</i> K.MD.2	<i>Folding Napkins</i> 1.G.3	<i>Counting Fractions</i> 2.G.3	<i>Sharing an Apple</i> 3.NF.3

Research Base:

- Van de Walle, Lovin, Karp, and Bay-Williams (2014) Teaching student-centered mathematics: Developmentally appropriate instruction for grades PreK-2. Upper Saddle River, NJ: Pearson.
- Kirkpatrick, Swafford, and Findell (2001) Adding it up: Helping children learn mathematics. Washington, DC: National Academy of Sciences.

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