



## CROSSWALKS – A correlation linking Cathy Fosnot’s *Contexts for Learning to Math Makes Sense*



Grade Level	<i>Math Makes Sense</i> Unit	<i>Contexts for Learning</i> Unit	Comments
K	1 Exploring Patterns		
	2 Exploring Number	Games Throughout the Year	Use the games in this CFL Resource Book of games as an addition to the Activity Bank. Doing so provides an important way to challenge, support, and differentiate.
	3 Geometry and Measurement		
	4 Numbers to Ten [Lessons 5-10]	Bunk Beds and Apple Boxes	<i>Bunk Beds and Apple Boxes</i> is designed to develop the idea that various arrangements exist for a given quantity. The unit also introduces the arithmetic rack, a helpful tool that employs the use of the five and ten structures to develop the basic facts. This CFL unit can be used in place of lessons 5-10.
1	1 Patterning [Lessons 1-3]	Beads, Shoes, and Making Twos	<i>Beads, Shoes, and Making Twos</i> begins by introducing one more, one less to develop early notions of odd and even numbers. In the second week of the unit there are several necklace investigations similar to those in Unit 1. This CFL unit can be used in place of Lessons 1-3. Also see note below regarding lessons in Unit 2.
	2 Representing Numbers to 20 [Lessons 1-12]	Beads, Shoes, and Making Twos	<i>Beads, Shoes, and Making Twos</i> also replaces lessons 11 and 12 in Unit 2.
		Double-Decker Bus	<i>The Double-decker Bus</i> employs the arithmetic rack (in place of ten frames) to develop the basic facts. It also develops early addition and subtraction strategies. The unit can replace lessons 1-10. Also see note below regarding lessons in Unit 3.
	3 Addition and subtraction to 12 [Lessons 2, 5]	Double-Decker Bus	<i>The Double-decker Bus</i> also replaces lessons 2 and 5 in Unit 3.
	4 Measurement		
	5 Numbers to 100 [Lessons 1-6]	Organizing and Collecting	<i>Organizing and Collecting</i> develops counting and grouping strategies (specifically grouping in fives and tens). It also provides early foundational work on place value understandings and can be used in place of lessons 1-6.
	6 Geometry		



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1 (cont'd)	7 Addition and subtraction to 20	Minilessons for Early Addition and Subtraction	<i>Minilessons for Early Addition and Subtraction</i> is a resource guide that includes approximately 80 minilessons and quick images to develop the basic addition and subtraction facts. It can be used as a supplement throughout the year and for differentiation, and in particular may be used to supplement the work in Unit 7.
2	1 Patterning		
	2 Numbers to 100 [Lessons 4, 10, 12, 13]	Trades, Jumps, and Stops	<i>Trades, Jumps, and Stops</i> is an early algebra unit that develops and emphasizes equality and inequality. It can be used in place of Lessons 4, 10, 12 and 13
	3 Addition and subtraction to 18	Minilessons for Early Addition and Subtraction	<i>Minilessons for Early Addition and Subtraction</i> is a resource of approximately 80 minilessons. These minilessons can be used to develop strategies for learning the basic facts.
	4 Measurement [Lesson 3]	Measuring for the Art Show	<i>Measuring for the Art Show</i> develops the open number line model, an important model for representing addition and subtraction strategies for mental arithmetic. For this reason it is an important supplement. The context involves linear measurement with non-standard units. Although its purpose is not specifically measurement, it can replace lesson 3. Also see note below regarding lessons in Unit 5.
	5 Addition and Subtraction to 100 [Lessons 1, 2, 3, 4, and 8]	Measuring for the Art Show	<i>Measuring for the Art Show</i> also develops strategies for addition and can be used in place of lessons 1, 2, and 3.
		Ages and Timelines	<i>Ages and Timelines</i> develops an understanding of the relationship of addition and subtraction and can be used in place of lessons 4-8.
		Minilessons for Extending Addition and Subtraction	<i>Minilessons for Extending Addition and Subtraction</i> is a grade 2/3 resource of approximately 80 minilessons designed to support the development of mental arithmetic strategies for addition and subtraction. It provides an important supplemental resource for this unit as well as a powerful tool for differentiation.
6 Geometry			
7 Data Analysis			



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3	1 Patterning		
	2 Numbers to 1000 [Lessons 1-3]	The T-shirt Factory	<i>The T-shirt Factory</i> introduces the standard place value algorithms for addition and subtraction and deepens an understanding of place value to three and four places. The context of t-shirt factories provides an interesting context to students as they engage in a simulation, buying and selling t-shirts packed in rolls of 10 and boxes of 100 and keeping track of the remaining inventory and the worth of it. Each t-shirt sells for \$10. This unit can be used in place of Lessons 1-3.
	3 Addition and Subtraction [Lessons 6, 8, and 10]	Minilessons for Extending Addition and Subtraction	This CFL resource focuses on the development of efficient computation strategies for 2 and 3-digit addition and subtraction. Doing 10-15 min. minilessons from this resource every day will provide the needed practice in computation and thus lessons 6, 8, and 10 in Unit 3 can be eliminated. Can also be used for differentiation and intervention.
	4 Measurement		
	5 Fractions		
	6 Geometry		
	7 Data Analysis		
	8 Multiplication and Division [Lessons 1-4]	Groceries, Stamps, and Measuring Strips	<i>Groceries, Stamps, and Measuring Strips</i> focuses on skipcounting and regrouping of repeated equal-sized groups. It introduces multiplication by building sequentially from repeated addition and skipcounting on the open number line, to multiplicative thinking, and lays a framework for strategies that will help automatize the basic multiplication facts. The second week of the unit provides an introduction to the relationships between the facts and the underlying properties. It can be used in place of lessons 1-4.
	Minilessons for Early Multiplication and Division	<i>Minilessons for Early Multiplication and Division</i> was designed as a yearlong resource for grades 3 and 4 to support the automatizing of the basic facts for multiplication and division and to develop early computation strategies that will be helpful later with larger numbers. Doing 10-15 min. minilessons from this resource everyday will provide the needed practice in computation to ensure automaticity of the facts. Can also be used for differentiation and intervention.	



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4	1 Patterns and Equations [Lessons 2 and 3]		<i>The Big Dinner</i> introduces the ratio table as a powerful tool for multiplicative reasoning and lays a foundation for the development of proportional reasoning. It also continues the work of developing the basic multiplication facts and introduces the use of partial products employing the use of the distributive property for multiplication (over addition and subtraction). It can be used in conjunction with Lessons 2 and 3, or as a supplement. It also serves as a nice foundation for the later work on time in Unit 4.
	2 Whole Numbers		
	3 Multiplication and Division Facts [Lessons 1, 3, 4, 7, 8, and 9]	Muffles Truffles	<i>Muffles Truffles</i> develops the open array as a multiplication model that can be used as a powerful tool to support the development of partial products and the distributive, commutative, and associative properties. Students also explore ways to change the shape of the array while keeping the area constant. It can be used in place of Lessons 1, 3, and 4.
		The Teachers’ Lounge	<i>The Teachers’ Lounge</i> introduces the array for division and emphasizes place value and the distributive property for multiplication over addition (as they relate to division). Partial quotients are introduced and the standard long division algorithm is developed. Partitive and quotative situations are both examined, as well as the treatment of remainders in context. It can be used in place of Lessons 7, 8, and 9.
	4 Measurement		
	5 Fractions and Decimals		
	6 Geometry		
	7 Data Analysis		
8 Multiplying and Dividing Larger Numbers	Minilessons for Extending Multiplication and Division	This yearlong resource makes use of crafted strings of related problems to ensure the development of a repertoire of strategies to ensure efficient computation for multiplication and division with larger numbers. The unit was designed for grades 4/5. The minilessons within this resource emphasize mental arithmetic and the use of the associative and distributive properties. This resource also provides practice for efficient computation and can be used for differentiation and intervention. If the minilessons in this unit are used throughout the year, day by day, then Unit 8 can be skipped.	



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Grade Level	<i>Math Makes Sense</i> Unit	<i>Contexts for Learning</i> Unit	Comments
5	1 Patterns and Equations [Lessons 5-7]	The California Frog-jumping Contest	<i>The California Frog-jumping contest</i> focuses on symbolizing with variables, emphasizing that an algebraic expression can be treated as an object (not only as a procedure). The double open number line is used throughout as a tool to support the development of strategies for solving for unknowns in linear equations. This unit replaces Lessons 5-7.
	2 Whole Numbers		
	3 Multiplying and Dividing Whole Numbers	Minilessons for Extending Multiplication and Division	This yearlong resource makes use of crafted strings of related problems to ensure the development of a repertoire of strategies to ensure efficient computation for multiplication and division with larger numbers. The unit was designed for grades 4/5. The minilessons within this resource emphasize mental arithmetic and the use of the associative and distributive properties. This resource also provides practice for efficient computation and can be used for differentiation and intervention. If the minilessons in this unit are used throughout the year in grade 5, day by day, then Unit 3 can be skipped.
	4 Measurement [Lessons 5, 6, 7]	The Box Factory	<i>The Box Factory</i> develops the associative property and factoring and supports the generalization of the relationship between surface area and volume in rectangular prisms and their formulas. It can be used in place of Lessons 5-7.
	5 Fractions and Decimals [Lessons 1, 2, 5, 6, 7, 9, 10-13]	Field Trips and Fundraisers	<i>Field Trips and Fund-Raisers</i> develops the connection of fractions to division and supports the generalization between the various fraction models (fair-sharing, the bar and area models, part/whole). It also introduces the use of the open number line model for addition and subtraction fraction work. It replaces Lessons 1, 2, 5 and 9.
		The Mystery of the Meter	<i>The Mystery of the Meter</i> provides an important treatment of decimals by introducing the analog meter to emphasize place value and equivalence. The primary models used for decimals in <i>Math Makes Sense</i> are Base Ten blocks and paper grids. This CFL unit can be used as a replacement for Lessons 6, 7, 10, 11, 12, and 13. Using <i>Mystery of the Meter</i> will ensure that due emphasis is being placed on decimal numbers, equivalence, and place value. Teachers might find it helpful to provide subsequent practice and homework however from the units being replaced.
	6 Geometry		
7 Statistics and Probability			



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Grade Level	<i>Math Makes Sense</i> Unit	<i>Contexts for Learning</i> Unit	Comments
5 (cont'd)	8 Transformations		
6	1 Patterns and Equations		
	2 Understanding Number		
	3 Decimals		
	4 Angles and Polygons		
	5 Fractions, Ratios, and Percents [lessons 2, 3, 4, and 5]	Best Buys, Ratios, and Rates	<i>Best Buys, Ratios, and Rates</i> was designed to develop a strong sense of fraction equivalence, emphasizing proportional reasoning. It provides many opportunities for students to explore fractions of changing wholes and to explore the treatment of numerators and denominators to establish equivalence. It also develops the double open number line and the ratio models for fraction equivalence and introduces addition and subtraction of fractions. It can be used in place of Lessons 4 and 5.
		Minilessons for Operations with Fractions, Decimals, and Percents	This resource of minilessons can be used throughout the grades 5/6/7 to develop and ensure an understanding of equivalence that can be helpful for efficient computation with fractions, decimals, and percents. The unit is designed progressively. The minilessons using the earlier models in the resource (coins, clocks, price, and number lines) could be used in place of lessons 2, 3, and can also serve as an important supplement for differentiation and intervention.
	6 Geometry and Measurement		
	7 Data Analysis and Probability		
8 Transformations			



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7	1 Patterns and Relations		
	2 Integers		
	3 Fractions, Decimals, and Percents		
	4 Circles and Area		
	5 Operations with Fractions [Lessons 1-7]	Minilessons for Operations with Fractions, Decimals, and Percents	This resource of minilessons can be used throughout the grades 5/6/7 to develop and ensure an understanding of equivalence that can be helpful for efficient computation with fractions, decimals, and percents. The unit is designed progressively. The minilessons using coins, clocks, price, and number lines can be used in place of Lessons 1-7.
	6 Equations [Lessons 1, 2, 4, and 5]	The California Frog-jumping Contest	<i>The California Frog-jumping contest</i> focuses on symbolizing with variables, emphasizing that an algebraic expression can be treated as an object (not only as a procedure). The double open number line is used throughout as a tool to support the development of strategies for solving for unknowns in linear equations. Although this unit appears first on Grade 5, it may provide a realistic context for the work of analyzing equations, and thus could be used here as well in place of lessons 1, 2, 4 and 5.
	7 Data Analysis		
	8 Geometry		
8	1 Square Roots and the Pythagorean Theorem		
	2 Integers		
	3 Operations with Fractions [Lessons 2-8]	Parks and Playgrounds	<i>Parks and Playgrounds</i> has as its focus multiplication and division of fractions by fractions, although many of the problems can also be solved with decimal equivalents. This unit can serve as a needed contextually-based unit to support children in developing a strong sense of operations with rational numbers where multiplication and division of fractions are emphasized. It can replace 3.2, 3.3, and 3.8.



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8 (cont'd)		Minilessons for Operations with Fractions, Decimals, and percents	This resource of minilessons can be used throughout the grades 5/6/7 to develop and ensure an understanding of equivalence that can be helpful for efficient computation with fractions, decimals, and percents. The unit is designed progressively. The minilessons using the double number line, the array and the ratio table can be used in place of 3.4, 3.5, 3.6, 3.7
	4 Measuring Prisms and Cylinders		
	5 Percent, Ratio, and Rate		
	6 Linear Equations and Graphing		
	7 Data Analysis and Probability		
	8 Geometry		