

**Pacing Guidelines**  
**Recommended Number of 1-Hour Sessions**

**Kindergarten**

<u>Multi-Level</u>	<u>Name of Unit</u>	<u>Investigation Name</u>	<u># of Sessions</u>	<u>Total</u>
K	Mathematical Thinking in K	1: Attendance	4-5	14-18
		2: Counting Jar	3-4	
		3: Calendar	4-5	
		4: Today's Question	3-4	
K	Pattern Trains and Hopscotch Paths	1: Exploring Patterns	4-7	23-2
		2: What Comes Next?	7-9	
		3: Hopscotch Paths	7-9	
		4: Pattern Borders	5-7	
K	Collecting, Counting, and Measuring	1: Counting Books	3-5	23-33
		2: Taking Inventory	3-5	
		3: Comparing Towers	5-6	
		4: Counting and Comparing	4-6	
		5: Least to Most	4-5	
		6: Arrangements of Six	4-6	
K-1	Counting Ourselves And Others	1: How Many Are We?	5-8	18-26
		2: What Did You Eat for Lunch?	5-7	
		3: Collecting Data About Our Class	5-7	
		4: Who's Here? Who's Not?	3-4	
K-1	Making Shapes and Building Blocks	1: 2-D Shapes Around Us	4-5	23-30
		2: Exploring Shapes w/Computer	4-5	
		3: Looking at 3-D Shapes	5-7	
		4: Making Shapes and Building Blocks	5-7	
		5: 2-D Faces on 3-D Blocks	5-6	
K-1	How Many in All?	1: Counting and Measuring	3-5	19-25
		2: Six Tiles	5-7	
		3: Story Problems	5-6	
		4: Blue and Red Crayons	6-7	
<b>Totals:</b>		<b>27</b>		<b>120-164</b>

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**First Grade**

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1	Mathematical Thinking at Grade 1	1: Exploring Materials	4	28
		2: Exploring Numbers	6	
		3: Patterns	6	
		4: Counting and Combining	6	
		5: Data About Our Class	6	
1	Building Number Sense	1: Visualizing Numbers	9	37
		2: Building Numbers in Different Ways	9	
		3: Counting	9	
		4: Addition and Subtraction	10	
1	Survey Questions and Secret Rules	1: Sorting	6	18
		2: Survey Questions	6	
		3: Birthdays	3	
		4: Ages and Attendance	3	
1-2	Quilt Squares and Block Towns	1: 2-D Shapes and Patterns	15	32
		2: Comparing and Constructing 3-D Shapes	10	
		3: Building a Block Town	7	
1-2	Number Games and Story Problems	1: Number Combinations	10	38
		2: Twos, Fives, and Tens	15	
		3: Addition and Subtraction	13	
1-2	Bigger, Taller, Heavier, Smaller	1: Weighing and Balancing	6	18
		2: Filling	7	
		3: Measuring Length	5	
<b>Totals:</b>		<b>22</b>	<b>171</b>	<b>171</b>

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**Second Grade**

<u>Multi-Level</u>	<u>Name of Unit</u>	<u>Investigation Name</u>	<u># of Sessions</u>	<u>Total</u>
2-3	Mathematical Thinking at Grade 2	1: Exploring Materials	4	29
		2: Looking at Numbers	8	
		3: Geometric Counts	6	
		4: Counting	5	
		5: Collecting Data About Ourselves	6	
2-3	Coins, Coupons, and Combinations	1: 10's and Doubles	11	31
		2: Grouping by 2's, 5's, and 10's	10	
		3: Introducing Addition and Subtraction Situations	5	
		4: One Hundred	5	
2-3	Does It Walk, Crawl, or Swim?	1: Sorting People and Yettkis	6	16
		2: Collections: What Goes Together?	4	
		3: Animals in the Neighborhood	3	
		4: Scary Things	3	
2-3	Shapes, Halves, and Symmetry	1: Composing and Decomposing Shapes	8	29
		2: What Is a Rectangle?	6	
		3: Fractions of Geometric Shapes	8	
		4: Symmetry	7	
2-3	Putting Together and Taking Apart	1: Combining and Separating	6	30
		2: Working with 100	7	
		3: Finding the Missing Part	5	
		4: Adding Up to 100	4	
		5: Addition and Subtraction Strategies	8	
1-2	How Long? How Far?	1: Comparing Lengths	8	16
		2: Paths and <i>Geo-Logo</i>	8	
2-3	How Many Pockets? How Many Teeth?	1: Exploring Numerical Data	5	16
		2: Teeth Data	6	
		3: Data Projects	5	
2-3	Timelines and Rhythm Patterns	1: Timelines	5	10
		2: Rhythm Patterns	5	
<b>Totals:</b>		<b>29</b>	<b>177</b>	<b>177</b>

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**Third Grade**

<u>Multi-Level</u>	<u>Name of Unit</u>	<u>Investigation Name</u>	<u># of Sessions</u>	<u>Total</u>
3-4	Mathematical Thinking at Grade 3	1: What's a Hundred?	3	17
		2: Doubles and Halves	7	
		3: Data and Handfuls	4	
		4: Exploring Odds and Evens	3	
3-4	Things That Come in Groups	1: Things That Come in Groups	4	23
		2: Skip Counting and 100 Charts	6	
		3: Arrays and Skip Counting	5	
		4: The Language of Multiplication and Division	4	
		5: Problems with Larger Numbers	4	
3-4	Flips, Turns, and Area	1: Motions and Tetrominoes	5	10
		2: Finding Area	5	
3-4	From Paces to Feet	1: Measuring with Paces and Steps	6	16
		2: From Paces to Feet	7	
		3: Measuring Project: Do Our Chairs Fit Us?	3	
3-4	Landmarks in the Hundreds	1: Finding Factors	7	16
		2: Using Landmarks to Solve Problems	6	
		3: Constructing a 1000 Chart	3	
3-4	Up and Down the Number Line	1: Net Change	8	15
		2: Representing Elevator Trips	4	
		3: Inventing Board Games	3	
3-4	Combining and Comparing	1: Comparisons w/ Record Numbers	2	14
		2: How Much Heavier or Lighter?	2	
		3: Adding w/ Money, Inches, and Time	3	
		4: Working with Hundreds	4	
		5: Calendar Comparisons	3	
3-4	Turtle Paths	1: Paths and Lengths of Paths	4	17
		2: Turns in Paths	6	
		3: Paths with the Same Length	7	
3-4	Fair Shares	1: Sharing Brownies	4	14
		2: Pattern-Block Cookies	7	
		3: Other Things to Share	3	
3-4	Exploring Solids and Boxes	1: Sorting and Describing Solids	2	16
		2: Building Polygons and Polyhedra	5	
		3: Making Boxes	2	
		4: How Many Cubes in a Box?	3	
		5: Building a City	4	
<b>Totals:</b>		<b>36</b>	158	158

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**Fourth Grade**

<u>Multi-Level</u>	<u>Name of Unit</u>	<u>Investigation Name</u>	<u># of Sessions</u>	<u>Total</u>
4-5	Mathematical Thinking at Grade 4	1: How Many Hundreds?	4	19
		2: How Many Dollars?	4	
		3: Using Number Patterns	5	
		4: Making Geometric Patterns	6	
4-5	Arrays and Shares	1: Multiples on the 100 Chart	3	16
		2: Arrays	8	
		3: Multiplication and Division with 2-Digit Numbers	5	
4-5	Seeing Solids and Silhouettes	1: Making and Visualizing Cube Buildings	2	14
		2: Exploring Geometric Silhouettes	4	
		3: "How-To" Instructions for Cube Bldgs	3	
		4: The Cube Toy Project	4	
4-5	Landmarks in the Thousands	1: Working with 100	3	16
		2: Exploring Multiples of 100	5	
		3: How Much Is 1000?	5	
		4: Making a 10,000 Chart	4	
4-5-6	Different Shapes, Equal Pieces	1: Parts of Squares: Halves, Fourths, and Eighths	5	14
		2: Parts of Rectangles: Thirds, Sixths, and Twelfths	4	
		3: Ordering Fractions	5	
4-5	The Shape of the Data	1: Introduction to Data Analysis	3	15
		2: Landmarks in the Data	7	
		3: A Data Project: Investigating Sleep	5	
4-5	Money, Miles, and Large Numbers	1: Everyday Uses of Money	8	16
		2: How Far? Measuring in Miles and 1/10's	4	
		3: Calculating Longer Distances	4	
4-5-6	Changes Over Time	1: Graphing Population Changes	6	16.5
		2: Ways to Show Change Over Time	2	
		3: Telling Stories from Line Graphs	7	
4-5	Packages and Groups	1: Multiplication Tables	5	18
		2: Double-Digit Multiplication	3	
		3: Multiplication and Division Choices	10	
4-5	Sunken Ships and Grid Patterns	1: Locating Houses and Ships on a Grid	6	15
		2: Rectangles, Turns, and Coordinates	9	
4-5	Three out of Four Like Spaghetti	1: Using Fractions to Describe Data	4	11
		2: Looking at Data in Categories	7	
<b>Totals:</b>		<b>35</b>	<b>170.5</b>	<b>170.5</b>

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**Fifth Grade**

<u>Multi-Level</u>	<u>Name of Unit</u>	<u>Investigation Name</u>	<u># of Sessions</u>	<u>Total</u>
5-6	Mathematical Thinking at Grade 5	1: Exploring Numbers and Number Relationships	6	22
		2: Multiples and Factors up to 1000	5	
		3: Multiples and Factors up to 10,000	5	
		4: Reasoning About Landmarks up to 10,000	6	
5-6	Picturing Polygons	1: Identifying Polygons	4	19
		2: Triangles and Quadrilaterals	9	
		3: Regular Polygons and Similarity	6	
5-6	Name That Portion	1: Exploring Percents and Fractions	7	31
		2: Models for Fractions	9	
		3: Exploring Decimals	8	
		4: Data and Percents in Circle Graphs	7	
5-6	Between Never and Always	1: Finding and Comparing Probabilities	7	12
		2: Fair and Unfair Games	5	
5-6	Building on Numbers You Know	1: Exploring Distance Between Numbers	8	34
		2: Multiplication and Division Situations	7	
		3: Ways to Multiply and Divide	10	
		4: A Million Dots	2	
		5: Understanding Operations	7	
5-6	Measurement Benchmarks	1: Measures of Length and Distance	8	19
		2: Measures of Weight and Liquid Volume	8	
		3: It's About Time	3	
5-6	Patterns of Change	1: Number Patterns in Changing Shapes	4	16
		2: Motion Stories, Graphs, and Tables	5	
		3: Computer Trips on Two Tracks	7	
5-6	Containers and Cubes	1: The Packaging Factory	4	22
		2: Packaging Problems	5	
		3: Measuring the Space in our Classroom	4	
		4: Prisms and Pyramids, Cylinders and Cones	9	
5-6	Data: Kids, Cats, and Ads	1: Balancing Act	4	19
		2: Examining Cats	3	
		3: Sampling Ourselves	4	
		4: Sample of Ads	3	
		5: Researching Playground Injuries	5	
<b>Totals:</b>		<b>33</b>	<b>194</b>	<b>194</b>