

## 5<sup>th</sup> Grade Math Curriculum

In fifth grade, students will be building on their arithmetic abilities with whole numbers and fractions as they move into the world of decimals. Fifth graders also are introduced to the metric of measurement and basic geometry concepts like circles, quadrilaterals, and composite shapes.

A fifth-grade math curriculum starts with place value, then moves into calculating decimal numbers from fractions. Students begin to understand that fractions are really just little division problems as they create decimal equivalents for fractions and mixed numbers. The following information will explain the steps you should take to meet your child's 5<sup>th</sup> grade math goals.

### What Math Should a 5<sup>th</sup> Grader Already Know?

A fifth-grade math student should be able to perform all four operations (addition, subtraction, multiplication and division) with whole numbers *and* fractions. Students should also have memorized the multiplication table through 12, so it's easy to move onto the next level in math without getting hung up on basic multiplication. Fifth graders also are able to measure in the standard system of measurement and work with those measurements to solve real-world problems.

### What Do 5<sup>th</sup> Graders Learn in Math?

The major math concepts covered for a fifth-grade curriculum are:

- Multiplication Table (if not memorized yet)
- Place Value
- Converting Fractions to Decimals
- Operations with Decimals (addition, subtraction, multiplication and division)
- Converting Mixed Numbers and Improper Fractions to Decimals
- Working with numbers to the thousandths place
- Determine the Least Common Multiple and the Greatest Common Factor
- Representing Word Problems with Math
- Measuring Angles using a Protractor
- Finding the Perimeter and Area of Geometric Shapes
- Measurement in the Metric System

**SCHEDULING TIPS!** Be sure to include a bit of wiggle room in case your student needs extra time with a math topic. Also note that students may do Geometry at any time during the year.

For example, your schedule might look like this for a **Mastery Approach**:

<b>September</b> Decimals Session #1: (Beginner & Intermediate)	<b>October</b> Decimals Session #2: (Beginner & Intermediate Level)	<b>November</b> Decimals Session #3: (Beginner & Intermediate Level)	<b>December</b> Two weeks of extra practice if needed.
<b>January</b> Decimals Session #4 (Beginner & Intermediate Level)	<b>February</b> Decimals Session #5 (Beginner & Intermediate Level)	<b>March</b> Geometry #1-3	<b>April</b> Decimals Session #6 (Beginner & Intermediate Level)
<b>May</b> Decimals Session #7 (Beginner & Intermediate Level)	<b>June</b> Decimal Review Test  Math Camp	<b>July</b> Decimals #1-4: Advanced Level Labs	<b>August</b> Decimals #5-7 Advanced Level Labs

And here's an example of your schedule using a **Spiral Approach**:

<b>September</b> Decimals Session #1: (Beginner)  Decimals Session #2: (Beginner)	<b>October</b> Decimals Session #3: (Beginner)  Decimals Session #4: (Beginner)	<b>November</b> Decimals Session #5: (Beginner Level)  Decimals Session #6: (Beginner Level)	<b>December</b> Decimals Session #7: (Beginner Level)
<b>January</b> Decimals Session #1 (Intermediate Level)  Decimals Session #2 (Intermediate Level)	<b>February</b> Decimals Session #3 (Intermediate Level)  Decimals Session #4 (Intermediate Level)	<b>March</b> Geometry #1-3  Opportunity for any make-up work or extra review	<b>April</b> Decimals Session #5 (Intermediate Level)  Spring Break
<b>May</b> Decimals Session #6 (Intermediate Level)  Decimals Session #7 (Intermediate Level)	<b>June</b> Decimal Review Test  Math Camp	<b>July</b> Decimals #1-4: Advanced Level Labs	<b>August</b> Decimals #5-7 Advanced Level Labs

## 5<sup>th</sup> Grade Math Lesson Plan (36 weeks) – Spiral Approach

*Spiral Approach: Students complete just the Beginner Level (including workbook assignments) and then move onto next concept, returning to go into more depth for the second pass through the content in the Intermediate level. This approach is good for students that are quick to pick up concepts, enjoy variety and need a review on a regular basis to retain information.*

### Summer Term: Review – not included in the 36 weeks count

- [Multiplication Table](#) (For numbers 1-12 as needed)
- [Arithmetic Review](#) (Review before starting the academic year)

### Fall Term: Decimals *Spend two weeks on each of the following:*

- [Session #1](#): Place Value (Beginner Level)
- [Session #2](#): Converting Decimals & Fractions (Beginner Level)
- [Session #3](#): Adding & Subtracting Decimals (Beginner Level)
- [Session #4](#): Multiplying Decimals (Beginner Level)
- [Session #5](#): Dividing Decimals (Beginner Level)
- [Session #6](#): Dividing Decimals (Beginner Level)
- [Session #7](#): Four Operations with Decimals (Beginner Level)

### Winter Term: Decimals *Spend two weeks on each of the following:*

- [Session #1](#): Place Value (Intermediate Level)
- [Session #2](#): Converting Decimals & Fractions (Intermediate Level)
- [Session #3](#): Adding & Subtracting Decimals (Intermediate Level)
- [Session #4](#): Multiplying Decimals (Intermediate Level)
- [Session #5](#): Dividing Decimals (Intermediate Level)
- [Session #6](#): Dividing Decimals (Intermediate Level)
- [Session #7](#): Four Operations with Decimals (Intermediate Level)

### Spring Term: Geometry (Join us Live in Spring!) *Spend 1-2 weeks on each of the following:*

- [Session #1](#): Geometry Basics
- [Session #2](#): Area of Shapes
- [Session #3](#): Composite Figures
- [Session #4](#): Circles

## 5<sup>th</sup> Grade Math Lesson Plan (36 weeks) – Spiral Approach

Date	Math Lesson	Level	Week	Workbook / Assignment	Score
	<a href="#">Session #1:</a> Decimals & Place Value	<a href="#">Beginner</a>	1	#1: Pages 1-13 Measuring in Metric	
			2	#1: Pages 14-23 Candy Shop	
	<a href="#">Session #2:</a> Converting Decimals & Fractions	<a href="#">Beginner</a>	3	#1: Pages 24-33 #1: Pages 34-43	
			4	#1: TEST Pages 44-45 #2: 1-8 Plotting on a Number Line	
	<a href="#">Session #3:</a> Adding & Subtracting Decimals	<a href="#">Beginner</a>	5	#2: Pages 9-16 #2: Pages 17-24	
			6	#2: Pages 25-32	
	<a href="#">Session #4:</a> Multiplying Decimals	<a href="#">Beginner</a>	7	#2: Pages 33-43	
			8	#2: TEST Pages 44-45 #3: 1-4 Multiplication with M&Ms	
	<a href="#">Session #5:</a> Dividing Decimals Part 1	<a href="#">Beginner</a>	9	#3: 5-13 #3: 14-23	
			10	#3: 24-34 #3: 35-43 #3: TEST Pages 44-45 Metric Scavenger Hunt	
	<a href="#">Session #6:</a> Dividing Decimals Part 2	<a href="#">Beginner</a>	11	#4: Pages 1-8	
			12	#4: Pages 9-19 M&M Number Patterns	
	<a href="#">Session #7:</a> Four Operations with Decimals	<a href="#">Beginner</a>	13	#4: 20-31 #4: 32-40	
			14	#4: TEST 41-42 Decimal & Fraction Review	
	<a href="#">Session #1:</a> Decimals & Place Value	<a href="#">Intermediate</a>	15	Fast Food Restaurant	
			16	Place Value Dominoes Number Sense with M&Ms	
	<a href="#">Session #2:</a> Converting Decimals & Fractions	<a href="#">Intermediate</a>	17	Farm Project	
			18	Decimal-Fraction Flip Chart Decimal-Fraction Dominoes	
	<a href="#">Session #3:</a> Adding & Subtracting Decimals	<a href="#">Intermediate</a>	19	Grocery Store	
			20	Rounding Dominoes Decimal Operations Wheel Library Scavenger Hunt	
	<a href="#">Session #4:</a> Multiplying Decimals	<a href="#">Intermediate</a>	21	Donut Shop	
			22	Math Squares Dodecahedron Reference Decimal Maze	

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Date	Math Lesson	Level	Week	Workbook / Assignment	Score
	<a href="#">Session #5:</a> Dividing Decimals Part 1	<a href="#">Intermediate</a>	23	M&M Order of Operations	
Division Maze					
Decimal Dash					
			24	Powers of Ten Packet	
				Reverse Scavenger Hunt	
				Decimal of the Day Part 1	
	<a href="#">Session #6:</a> Dividing Decimals Part 2	<a href="#">Intermediate</a>	25	Earth Day Adventure	
26			M&M Word Problems		
			Mystery Number Decimal		
			Dice Roll Game		
			Division Maze		
Decimal of the Day Part 2					
	<a href="#">Session #7:</a> Four Operations with Decimals	<a href="#">Intermediate</a>	27	Carwash Fundraiser	
28			Family Math Night		
			Rational Numbers Maze		
			Prime Numbers		
			Decimal of the Day Part 3		
	<a href="#">Decimal Review</a>	All	29	Decimal Final Review/Test	
	<a href="#">Geometry #1:</a> Basic Concepts	All	30	Geometry Pages 1-16	
BINGO: Lines & Rays					
BINGO: Shapes & Figures					
Biscuits					
	<a href="#">Geometry #2:</a> Rectangles, Parallelograms, Triangles & Trapezoids	All	31	Geometry Pages 17-31	
32			Packet #1		
			Modeling Area Booklet Floating Paperclip		
	<a href="#">Geometry #3:</a> Composite Shapes	All	33	Geometry Pages 32-36	
34			Packet #2		
			Area of Shapes Coloring		
			Spin to Ten		
			BINGO Composite Figures		
			Trading Corks		
Quiz #1					
	<a href="#">Geometry #4:</a> Circles	All	35	Geometry Pages 37-40	
Geometry TEST Pages 41-42					
36			Packet #3		
			Area of a Circle Activity		
			Circles & Mazes		
			Solve & Color		
			Circle BINGO		
			Center the Cork		

## 5<sup>th</sup> Grade Math Lesson Plan (36 weeks) – Mastery Approach

*Mastery Approach: Students complete both Beginner and Intermediate Levels before moving to next concept. Good for students that prefer a slower, more in-depth study pace that focuses on just one new concept at a time.*

### Summer Term: Review (August) – not included in the 36 weeks count

- [Multiplication Table](#) (For numbers 1-12 as needed)
- [Arithmetic Review](#) (Review before starting Fractions)

### Fall Term: Decimals *Spend two weeks on each of the following:*

- [Session #1](#): Place Value (Beginner Level)
- [Session #1](#): Place Value (Intermediate Level)
- [Session #2](#): Converting Decimals & Fractions (Beginner Level)
- [Session #2](#): Converting Decimals & Fractions (Intermediate Level)
- [Session #3](#): Adding & Subtracting Decimals (Beginner Level)
- [Session #3](#): Adding & Subtracting Decimals (Intermediate Level)

### Winter / Spring Term: Decimals *Spend two weeks on each of the following*

- [Session #4](#): Multiplying Decimals (Beginner Level)
- [Session #4](#): Multiplying Decimals (Intermediate Level)
- [Session #5](#): Dividing Decimals (Beginner Level)
- [Session #5](#): Dividing Decimals (Intermediate Level)
- [Session #6](#): Dividing Decimals (Beginner Level)
- [Session #6](#): Dividing Decimals (Intermediate Level)
- [Session #7](#): Four Operations with Decimals (Beginner Level)
- [Session #7](#): Four Operations with Decimals (Intermediate Level)

### Spring Term: Geometry (Join us Live in Spring!) *Spend 1-2 weeks on each of the following:*

- [Session #1](#): Geometry Basics
- [Session #2](#): Area of Shapes
- [Session #3](#): Composite Figures
- [Session #4](#): Circles

## 5<sup>th</sup> Grade Math Lesson Plan (36 weeks) – Mastery Approach

Date	Math Lesson	Level	Week	Workbook / Assignment	Score
	<u>Session #1:</u> Introduction to Decimals & Place Value	<u>Beginner</u>	1	#1: Pages 1-13 Measuring in Metric	
			2	#1: Pages 14-23 Candy Shop	
		<u>Intermediate</u>	3	Fast Food Restaurant	
			4	Place Value Dominoes Number Sense with M&Ms	
	<u>Session #2:</u> Converting Decimals & Fractions	<u>Beginner</u>	5	#1: Pages 24-33 #1: Pages 34-43	
			6	#1: TEST Pages 44-45 #2: 1-8 Plotting on a Number Line	
		<u>Intermediate</u>	7	Farm Project	
			8	Decimal-Fraction Flip Chart Decimal-Fraction Dominoes	
	<u>Session #3:</u> Adding & Subtracting Decimals	<u>Beginner</u>	9	#2: Pages 9-16 #2: Pages 17-24	
			10	#2: Pages 25-32	
		<u>Intermediate</u>	11	Grocery Store	
			12	Rounding Dominoes Decimal Operations Wheel Library Scavenger Hunt	
	<u>Session #4:</u> Multiplying Decimals	<u>Beginner</u>	13	#2: Pages 33-43	
			14	#2: TEST Pages 44-45 #3: 1-4 Multiplication with M&Ms	
		<u>Intermediate</u>	15	Donut Shop	
			16	Math Squares Dodecahedron Reference Decimal Maze	
	<u>Session #5:</u> Dividing Decimals Part 1	<u>Beginner</u>	17	#3: 5-13 #3: 14-23	
			18	#3: 24-34 #3: 35-43 #3: TEST Pages 44-45 Metric Scavenger Hunt	
				19	M&M Order of Operations Division Maze Decimal Dash
		<u>Intermediate</u>	20	Powers of Ten Packet Reverse Scavenger Hunt Decimal of the Day Part 1	

*Continued on the next page...*

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Date	Math Lesson	Level	Week	Workbook / Assignment	Score				
	<u>Session #6:</u> Dividing Decimals Part 2	<u>Beginner</u>	21	#4: Pages 1-8					
			22	#4: Pages 9-19 M&M Number Patterns					
		<u>Intermediate</u>	23	Earth Day Adventure					
			24	M&M Word Problems					
				Mystery Number Decimal					
				Dice Roll Game					
		Division Maze Decimal of the Day Part 2							
		<u>Session #7:</u> Four Operations with Decimals	<u>Beginner</u>	25	#4: 20-31 #4: 32-40				
	26			#4: TEST 41-42 Decimal & Fraction Review					
	<u>Intermediate</u>		27	Carwash Fundraiser Family Math Night					
			28	Rational Numbers Maze Prime Numbers Decimal of the Day Part 3					
				<u>Decimal Review</u>	All	29	Decimal Final Review/Test		
				<u>Geometry #1:</u> Basic Concepts	All	30	Geometry Pages 1-16 BINGO: Lines & Rays BINGO: Shapes & Figures Biscuits		
	<u>Geometry #2:</u> Rectangles, Parallelograms, Triangles & Trapezoids	All	31				Geometry Pages 17-31		
							32	Packet #1 Modeling Area Booklet Floating Paperclip	
								<u>Geometry #3:</u> Composite Shapes	All
	34	Packet #2 Area of Shapes Coloring Spin to Ten BINGO Composite Figures Trading Corks Quiz #1							
		35	Geometry Pages 37-40 Geom. TEST Pages 41-42						
			<u>Geometry #4:</u> Circles	All	36	Packet #3 Area of a Circle Activity Circles & Mazes Solve & Color Circle BINGO Center the Cork			