4th Grade Math Curriculum

In fourth grade, students will be building on their arithmetic abilities with whole numbers into the world of fractions. Fourth graders also are introduced to the standard system of measurement and basic geometry concepts like the point, the line, the plane, and several 2D shapes.

Our goal is to make sure students not only have a strong grasp of the math skills they need to master this year, but also have the confidence they need to explore and think as they continue to learn about the world around them.

A fourth-grade math curriculum usually begins to step outside the arena of whole numbers and into the area of numbers that are between those integers. The following information will explain the steps you should take to meet your child's 4th grade math goals.

What Math Should a 4th Grader Already Know?

A fourth-grade math student should be able to perform all four operations (addition, subtraction, multiplication and division) with whole numbers. 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.

What Do 4th Graders Learn in Math?

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

- Multiplication Table (if not memorized yet)
- Operations with Fractions (addition, subtraction, multiplication and division)
- Arithmetic of Mixed Numbers and Improper Fractions
- Representing Word Problems with Math
- Finding the Perimeter and Area of Geometric Shapes
- Measurement in the Standard 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**:

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

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

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

4th Grade Math Lesson Plan (34 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 34 weeks count

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

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

- Session #1: Introduction to Fractions (Beginner Level)
- Session #2: Multiplying Fractions (Beginner Level)
- Session #3: Multiplying & Dividing Fractions (Beginner Level)
- Session #4: Addition & Subtraction with Same Denominators (Beginner Level)
- Session #5: Addition & Subtraction with Different Denominators (Beginner Level)
- Session #6: Mixed Numbers & Improper Fractions and Ratios (Beginner Level)
- Session #7: Mixed Numbers & Improper Fractions (Beginner Level)

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

- Session #1: Introduction to Fractions (Intermediate Level)
- Session #2: Multiplying Fractions (Intermediate Level)
- Session #3: Multiplying & Dividing Fractions (Intermediate Level)
- Session #4: Addition & Subtraction with Same Denominators (Intermediate Level)
- Session #5: Addition & Subtraction with Different Denominators (Intermediate Level)
- Session #6: Mixed Numbers & Improper Fractions and Ratios (Intermediate Level)
- Session #7: Mixed Numbers & Improper Fractions (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

4ᵗʰ Grade Math Lesson Plan (34 weeks) – Spiral Approach

Date	Math Lesson	Level	Week	Workbook / Assignment	Score
	Session #1: Introduction to Fractions	Beginner	1	#1: Pages 1-12	
			2	#1: Pages 13-25	
	Session #2: Multiplying Fractions	Beginner	3	#1: Pages 26-36	
				#1: Pages 37-42	
			4	#1 TEST: Pages 43-44	
				#2: Pages 1-3	
	Session #3: Multiplying & Dividing Fractions	Beginner	5	#2: Pages 4-14	
				#2: Pages 15-26	
			6	#2: Pages 27-30	
				Time Lab Part 1	
	Session #4: Addition & Subtraction with Same Denominators	Beginner	7	#2: Pages 31-35	
				#2: TEST: Pages 36-37	
			8	#3: Pages 1-16	
				Precision Measurement	
	Session #5: Addition & Subtraction with Different Denominators	Beginner	9	#3: Pages 17-39	
			10	#3: TEST Pages 40-41	
				Measuring Curves/Std Units	
	Session #6: Mixed Numbers & Improper Fractions and Ratios	Beginner	11	#4: Pages 1-21	
			12	Fraction Maze #12	
				Fraction Maze #13	
	Session #7: Mixed Numbers & Improper Fractions	Beginner	13	#4: Pages 22-43	
				#4: TEST Pages 44-45	
			14	Fraction Skills Practice Test	
				Tic Tac Toe #1	
	Session #1: Introduction to Fractions	Intermediate	15	Ice Cream Shop	
			16	Scavenger Hunt	
				Dominoes	
	Session #2: Multiplying Fractions	Intermediate	17	Pizza Place	
			18	Spoons: Fractions	
				Fractions Bingo	
	Session #3: Multiplying & Dividing Fractions	Intermediate	19	Bakery (1, 3-8, 10-12, 14-16)	
			20	Fraction LEGOs	
				Rocket Race	
				Measurement Maze	

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Date	Math Lesson	Level	Week	Workbook / Assignment	Score
	Session #4: Addition & Subtraction with Same Denominators	Intermediate	21	Bakery (1, 3-8, 10-12, 14-16)	
			22	Spoons: Reduce	
				Battle Math Ship	
				Precision Gauges	
				Fractions Maze	
	Session #5: Addition & Subtraction with Different Denominators	Intermediate	23	Fraction Fair	
			24	LEGO Gear Lab	
				BINGO: Equivalent	
				Fractions Game	
	Session #6: Mixed Numbers & Improper Fractions and Ratios	Intermediate	25	Fraction Bump!	
				Lemonade Stand	
				Going for a Walk	
			26	Spoons: Fraction War	
				Fraction Maze #15	
				Fraction Maze #16	
				3 & 4 in a Row	
	Session #7: Mixed Numbers & Improper Fractions	Intermediate	27	Fraction Maze #17	
				Fraction Maze #18	
			28	Paper Airplane Lab	
				Tic Tac Toe #2	
	Fraction Review	All	29	Fraction Final Review/Test	
	Geometry #1: Basic Concepts	All	30	Geometry Pages 1-16	
				BINGO: Lines & Rays	
				BINGO: Shapes & Figures	
				Biscuits	
	Geometry #2: Rectangles, Parallelograms, Triangles & Trapezoids	All	31	Geometry Pages 17-31	
			32	Packet #1	
				Modeling Area Booklet	
				Floating Paperclip	
	Geometry #3: 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	

4th Grade Math Lesson Plan (34 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 – not included in the 34 weeks count

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

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

- [Session #1:](#) Introduction to Fractions (Beginner Level)
- [Session #1:](#) Introduction to Fractions (Intermediate Level)
- [Session #2:](#) Multiplying Fractions (Beginner Level)
- [Session #2:](#) Multiplying Fractions (Intermediate Level)
- [Session #3:](#) Multiplying & Dividing Fractions (Beginner Level)
- [Session #3:](#) Multiplying & Dividing Fractions (Intermediate Level)

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

- [Session #4:](#) Addition & Subtraction with Same Denominators (Beginner Level)
- [Session #4:](#) Addition & Subtraction with Same Denominators (Intermediate Level)
- [Session #5:](#) Addition & Subtraction with Different Denominators (Beginner Level)
- [Session #5:](#) Addition & Subtraction with Different Denominators (Intermediate Level)
- [Session #6:](#) Mixed Numbers & Improper Fractions and Ratios (Beginner Level)
- [Session #6:](#) Mixed Numbers & Improper Fractions and Ratios (Intermediate Level)
- [Session #7:](#) Mixed Numbers & Improper Fractions (Beginner Level)
- [Session #7:](#) Mixed Numbers & Improper Fractions (Intermediate Level)

Spring Term: Geometry (Join us LIVE in Spring!)

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

4th Grade Math Lesson Plan (34 weeks) – Mastery Approach

Date	Math Lesson	Level	Week	Workbook / Assignment	Score
		Beginner	1	#1: Pages 1-12	
	Session #1: Introduction to Fractions		2	#1: Pages 13-25	
		Intermediate	3	Ice Cream Shop	
			4	Scavenger Hunt	
				Dominoes	
		Beginner	5	#1: Pages 26-36	
	Session #2: Multiplying Fractions		6	#1: Pages 37-42	
				#1 TEST: Pages 43-44	
				#2: Pages 1-3	
		Intermediate	7	Pizza Place	
			8	Spoons: Fractions	
				Fractions Bingo	
		Beginner	9	#2: Pages 4-14	
	Session #3: Multiplying & Dividing Fractions			#2: Pages 15-26	
			10	#2: Pages 27-30	
				Time Lab Part 1	
		Intermediate	11	Bakery (1, 3-8, 10-12, 14-16)	
			12	Fraction LEGOs	
				Rocket Race	
				Measurement Maze	
		Beginner	13	#2: Pages 31-35	
	Session #4: Addition & Subtraction with Same Denominators			#2: TEST: Pages 36-37	
			14	#3: Pages 1-16	
				Precision Measurement	
		Intermediate	15	Bakery (1, 3-8, 10-12, 14-16)	
			16	Spoons: Reduce & Compare	
				Battle Math Ship	
				Precision Gauges	
				Fractions Maze	
		Beginner	17	#3: Pages 17-39	
	Session #5: Addition & Subtraction with Different Denominators		18	#3: TEST Pages 40-41	
				Measuring Curves/Std Units	
		Intermediate	19	Fraction Fair	
			20	LEGO Gear Lab	
				BINGO: Equivalent Fractions	
				Fractions Board Game	

Date	Math Lesson	Level	Week	Workbook / Assignment	Score
	Session #6: Mixed Numbers & Improper Fractions and Ratios	Beginner	21	#4: Pages 1-21	
			22	Fraction Maze #12	
				Fraction Maze #13	
		Intermediate	23	Fraction Bump!	
				Lemonade Stand	
				Going for a Walk	
			24	Spoons: Fraction War	
				Fraction Maze #15	
				Fraction Maze #16	
				3 & 4 in a Row	
	Session #7: Mixed Numbers & Improper Fractions	Beginner	25	#4: Pages 22-43	
				#4: TEST Pages 44-45	
			26	Fraction Skills Practice Test	
				Tic Tac Toe #1	
		Intermediate	27	Fraction Maze #17	
				Fraction Maze #18	
			28	Paper Airplane Lab	
				Tic Tac Toe #2	
	Fraction Review	All	29	Fraction Review Session	
	Geometry #1: Basic Concepts	All	30	Geometry Pages 1-16	
				BINGO: Lines & Rays	
				BINGO: Shapes & Figures	
				Biscuits	
	Geometry #2: Rectangles, Parallelograms, Triangle & Trapezoids	All	31	Geometry Pages 17-31	
			32	Packet #1	
				Modeling Area Booklet	
				Floating Paperclip	
	Geometry #3: 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	