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

A YEAR AT A GLANCE 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. The sequence below is our recommendation for a full year course:

Summer Term: Review

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

September	October	November	December
Fractions Session #1: Introduction to Fractions	*Fractions Session #2:* Multiplying Fractions	*Fractions Session #3:* Multiplying Fractions & Word Problems	Two weeks of extra practice if needed.
January *Fractions Session #4:* Adding & Subtracting Fractions with the Same Denominator	**February** *Fractions Session #5:* Adding & Subtracting Fractions with Different Denominators	**March** *Fractions Session #6:* Mixed Numbers, Improper Fractions & Ratios	**April** *Fractions Session #7:* Mixed Numbers, Improper Fractions & Ratios
May *Geometry Sessions #1-2*	**June** Math Camp	**July** *Fractions #1-4: Advanced Level Labs*	**August** *Fractions #5-7 Advanced Level Labs*

4th Grade Math Lesson Plan (34 weeks)

Summer Term: Review
Spend 2-3 weeks as needed:

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

Monthly Class Format: Students watch a math lesson (live or recorded), work on their assignment: first 2 weeks are workbooks, then 1 week on projects, and one final week on games, puzzles, and activities for every session.

Fall Term: Fractions
Spend one month on each of the following:

- Session #1: Introduction to Fractions
- Session #2: Multiplying Fractions
- Session #3: Multiplying & Dividing Fractions

Winter / Spring Term: Fractions
Spend one month on each of the following:

- Session #4: Add/Subtract Same
- Session #5: Add/Subtract Different
- Session #6: Ratios & Improper Fractions
- Session #7: Mixed Numbers & Improper Fractions

Spring Term: Geometry
Spend one week on each of the following:

- Session #1: Lines & Angles
- Session #2: Rectangles & Parallelograms
- Session #2: Triangles & Trapezoids

Summer Term: Advanced Labs
Optional: These are bonus real-world applications of the skills mastered this year.

- Advanced Labs 1-7