

## **Grade 3 Math Skills Overview**

Core skills focus on:

- Multiplication and division fluency
  - Fractions and decimals introduction
  - Geometry and measurement
  - Data analysis and problem solving
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### **1. Multiplication & Division**

- Multiply and divide within 100 (focus on times tables up to 10)
  - Understand properties of multiplication and division
  - Solve word problems involving multiplication and division
  - Use arrays, equal groups, and area models to represent multiplication
  - Understand division as sharing and grouping
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### **2. Fractions**

- Understand fractions as parts of a whole
  - Represent fractions on number lines
  - Compare fractions with the same denominator
  - Understand equivalent fractions
  - Add and subtract fractions with like denominators
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### **3. Number Sense & Place Value**

- Read and write numbers up to 10,000
  - Understand place value up to thousands
  - Round numbers to the nearest ten or hundred
  - Skip count by 4s, 8s, 50s, and 100s
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### **4. Measurement & Geometry**

- Measure length using standard units (cm, m, in, ft)
  - Calculate perimeter of polygons
  - Understand concepts of area and calculate area of rectangles
  - Identify and classify 2D and 3D shapes by their properties
  - Understand and measure angles (right, acute, obtuse)
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## 5. Data & Graphing

- Collect and organize data using tables, bar graphs, and pictographs
  - Interpret data from graphs to answer questions
  - Understand the concepts of probability
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## 6. Problem Solving & Reasoning

- Solve multi-step word problems using addition, subtraction, multiplication, and division
  - Use drawings, diagrams, and equations to represent problems
  - Explain reasoning clearly using mathematical vocabulary
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## Learning Outcomes (By End of Grade 3)

Students will be able to:

- Multiply and divide fluently within 100
  - Understand and work with basic fractions
  - Calculate perimeter and area of simple shapes
  - Read, interpret, and create graphs
  - Solve multi-step word problems confidently
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