

Mathematics – Grade 3

Operations and Algebraic Thinking	Number and Operations in Base Ten
<ul style="list-style-type: none"> • Understand and know from memory how to multiply and divide numbers up to 10×10 fluently. • Solve word problems using addition, subtraction, multiplication, and division. • Begin to multiply numbers with more than one digit (e.g., multiplying 9×80). 	<ul style="list-style-type: none"> • Understand place value and properties of operations to perform multi-digit arithmetic, such as 10×2, 50×3, and 40×7.
Number and Operations- Fractions	Measurement and Data
<ul style="list-style-type: none"> • Understand fractions and relate them to the familiar system of whole numbers (e.g., recognizing that $3/1$ and 3 are the same number). 	<ul style="list-style-type: none"> • Measure and estimate weights and liquid volumes, and solve word problems involving these quantities. • Tell time and write time to the nearest minute. • Recognize area as a quality of two-dimensional regions. • Understand that rectangular arrays can be broken into identical rows or into identical columns. By breaking rectangles into rectangular arrays of squares, students connect area to multiplication, and explain how multiplication is used to determine the area of a rectangle.
Geometry	
<ul style="list-style-type: none"> • Reason about shapes (e.g., all squares are rectangles but not all rectangles are squares). • Find areas of shapes, and relate area to multiplication (e.g., why is the number of square feet for a 9-foot by 7-foot room given by the product 9×7?). • Understand the connection between equal parts of a shape being a unit of the whole. 	