Portrait of an Abington Heights 3rd Grade Mathematician

By the end of 3rd Grade, students will:

Numbers & Operations in Base Ten	Numbers & Operations - Fractions	Operations and Algebraic Thinking	Geometry	Measurement and Data
☐ Use place value to round two- and three-digit numbers to the nearest 10 or 100 ☐ Fluently add and subtract within 1,000 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction ☐ Multiply one-digit whole numbers by multiples of 10 in the range of 10-90 using strategies based on place value and properties of operations (ex. 4×80, 5×60) ☐ Order a set of (up to 4) numbers from least to greatest or greatest to least (up through 9,999)	☐ Develop understanding of fractions (whole divided into equal parts) ☐ Identify and represent fractions on a number line ☐ Explore equivalent fractions $\left(\frac{1}{2} = \frac{2}{4}\right)$ ☐ Explore whole number, fraction relationship $\left(4 = \frac{4}{1}\right)$ ☐ Compare fractions with like denominators using <, >, = and reason with fraction models	☐ Use multiplication and division within 100 to solve word problems involving equal groups, arrays, and measurement quantities ☐ Determine the unknown number of a multiplication or division equation (ex. $4 \times \ ? = 12$) ☐ Apply the commutative property of multiplication (If $4 \times 3 = 12$, then $3 \times 4 = 12$) ☐ Apply the associative property of multiplication ($2 \times 3 \times 4$ is the same as 2×12) ☐ Fluently multiply and divide within 100 ☐ Know all multiplication facts up to 9x9 from memory ☐ Solve two-step word problems using the four operations	☐ Understand that shapes in different categories (ex. rhombuses, rectangles, and others) may share attributes and that shared attributes can define a larger category (ex. quadrilaterals) ☐ Partition shapes into parts with equal areas and connect with knowledge of fractions	☐ Tell and write time to the nearest minute ☐ Solve word problems involving elapsed time ☐ Measure and estimate liquid volumes and masses of objects using standard & metric units ☐ Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units ☐ Measure to the nearest $\frac{1}{2}$, $\frac{1}{4}$ inch or nearest cm ☐ Compare total value of coins and bills (up to $5) ☐ Make change for amount up to $5.00 with no more than $2.00 change given ☐ Round amounts of money to nearest dollar ☐ Draw scaled picture graph and bar graph and solve one-step and two-step problems related to graphs ☐ Explore area (relate to multiplication & division) ☐ Identify perimeter of polygons and find unknown side length