Portrait of an Abington Heights 4th Grade Mathematician

By the end of 4th Grade, students will:

Numbers & Operations in Base Ten	Numbers & Operations - Fractions	Operations and Algebraic Thinking	Geometry	Measurement and Data
☐ Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right ☐ Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form ☐ Compare multi-digit numbers using <, >, = ☐ Round multi-digit whole numbers (through 1,000,000) to any place ☐ Fluently add and subtract multi-digit whole numbers within 1,000,000 ☐ Multiply two-digit by two-digit numbers and up to four digits by one digit ☐ Divide up to a four-digit number by a one-digit number	☐ Recognize and generate equivalent fractions ☐ Compare two fractions with unlike numerators and denominators ☐ Add and subtract fractions with like denominators ☐ Add and subtract mixed numbers with like denominators ☐ Solve addition, subtraction, and multiplication word problems involving fractions ☐ Understand decimal notation and compare two decimals to the hundredths using <, >, =	☐ Solve multi-step whole number word problems using the four operations including problems with remainders ☐ Explore prime and composite numbers ☐ Explore factors and multiples ☐ Analyze and explain patterns	☐ Explore points, lines, line segments, rays, angles (right, acute, obtuse) and parallel and perpendicular lines ☐ Classify two-dimensional figures based on attributes ☐ Explore right triangles ☐ Identify symmetry of two-dimensional figures	☐ Solve problems involving measurement conversions ☐ Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, (including problems involving simple fractions or decimals) ☐ Apply area and perimeter formulas for rectangles in real world and mathematical problems ☐ Identify time as the amount of minutes before or after the hour ☐ Solve problems involving addition and subtraction of fractions of a unit $\left(\frac{1}{2}, \frac{1}{4}, \frac{1}{8}\right)$ by using information presented in line plots ☐ Measure and explore concepts with angles