

Curriculum Focal Points 6th Grade Math	Grades 6, 7, 8 Strategies	Address these Focal Points in contexts of the Process Standards: problem solving, reasoning, communication, making connections, and designing and analyzing representations
<p>Number and Operations: Developing an understanding of and fluency with multiplication and division of fractions and decimals.</p>	<p><u>Number and Operations</u></p> <p>6.a (7, 8) Work flexibly with fractions, decimals, and percents to solve problems.</p> <p>6.b (7) Compare and order fractions, decimals, and percents efficiently and find their approximate locations on a number line.</p> <p>6.c (7) Understand and use ratios and proportions to represent quantitative relationships.</p> <p>6.d (7, 8) Understand the meaning and effects of arithmetic operations with fractions, decimals, and integers.</p> <p>6.e (7, 8) Use the associative and commutative properties of addition and multiplication and the distributive property of multiplication over addition to simplify computations with integers, fractions, and decimals.</p> <p>6.f (7, 8) Understand and use the inverse relationships of addition and subtraction, multiplication and division, and squaring and finding square roots to simplify computations and solve problems.</p> <p>6.g (7, 8) Select appropriate methods and tools for computing with fractions and decimals from among mental computation, estimation, calculators or computers, and paper and pencil, depending on the situation, and apply the selected methods.</p> <p>6.h (7, 8) Develop and analyze algorithms for computing with fractions, decimals, and integers and develop fluency in their use.</p> <p>6.i Develop and use strategies to estimate the results of rational-number computations and judge the reasonableness of the results.</p>	

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<p>Number and Operations: Connecting ratio and rate to multiplication and division.</p> <p>Algebra: Writing, interpreting, and using mathematical expressions and equations.</p>	<p><u>Numbers and Operations (continued)</u></p> <p>6.j (8) Develop, analyze, and explain methods for solving problems involving proportions, such as scaling and finding equivalent ratios.</p> <p><u>Algebra</u></p> <p>6.k (7, 8) Represent, analyze, and generalize a variety of patterns with tables, graphs, words, and when possible, symbolic rules.</p> <p>6.l (7, 8) Develop an initial conceptual understanding of different uses of variables.</p> <p>6.m (7, 8) Use symbolic algebra to represent situations and to solve problems, especially those that involve linear relationships.</p> <p>6.n (7, 8) Recognize and generate equivalent forms for simple algebraic expressions and solve linear equations.</p> <p>6.o (7, 8) Model and solve contextualized problems using various representations, such as graphs, tables, and equations.</p> <p><u>Geometry</u></p> <p>6.p (8) Precisely describe, classify, and understand relationships among types of two- and three-dimensional objects using their defining properties.</p> <p>6.q (8) Recognize and apply geometric ideas and relationships in areas outside the mathematics classroom, such as art, science, and everyday life.</p>	

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	<p><u>Measurement</u></p> <p>6.r (7) Understand both metric and customary systems of measurement.</p> <p>6.s (7) Understand relationships among units and convert from one unit to another within the same system.</p> <p>6.t (7, 8) Understand, select, and use units of appropriate size and type to measure angles, perimeter, area, surface area, and volume.</p> <p>6.u (7) Solve problems involving scale factors, using ratio and proportion.</p> <p>6.v (7, 8) Solve simple problems involving rates and derived measurements for such attributes as velocity and density.</p>	