



# Scholastic MATH® Meets Common Core State Standards

Scholastic MATH features motivating, skill-building activities that show students timely real-world applications of middle school math curricula and the Common Core State Standards for Mathematics. Subscriptions include a Teacher’s Guide, which features a chart that describes how each article correlates with the standards; teaching tips; extension activities; and an answer key for all print and online activities. Digital editions of each issue can be used with iPads®, interactive whiteboards, projectors, and classroom computers.

The following chart illustrates how *Scholastic MATH* meets the Common Core State Standards for Mathematics, grades 6-8:

- Ratios and Proportional Relationships (standards 6.RP and 7.RP)
- The Number System (standards 6.NS, 7.NS, and 8.NS)
- Expressions and Equations (standards 6.EE, 7.EE, and 8.EE)
- Geometry (standards 6.G, 7.G, and 8.G)
- Statistics and Probability (standards 6.SP, 7.SP, and 8.SP)
- Functions (standard 8.F)

Standards for Math	Scholastic MATH
<p><b>Ratios and Proportional Relationships</b></p> <p><b>6.RP</b> Understand ratio concepts and use ratio reasoning to solve problems.</p>	<ul style="list-style-type: none"> <li>• Students become familiar with the concept of ratio and learn to see ratio relationships through solving many problems involving ratio and rate reasoning.</li> <li>• Students use ratio language and learn to convert between ratios, fractions, and percents.</li> <li>• Students solve real-world problems using proportional reasoning, including those involving unit pricing, constant and average speed, percent, and converting units of measurement.</li> </ul>
<p><b>7.RP</b> Analyze proportional relationships and use them to solve real-world and mathematical problems.</p>	<ul style="list-style-type: none"> <li>• Articles promote student understanding of equivalent ratios and give students practice testing for equivalence.</li> <li>• Students learn to recognize and have opportunities to practice representing proportional relationships in solving many problems involving rates.</li> <li>• Many problems in Numbers in the News and feature articles allow students to practice solving multistep ratio and percent problems.</li> </ul>

Standards for Math	Scholastic MATH
<p><b>The Number System</b></p> <p><b>6.NS</b> Apply and extend previous understandings of multiplication and division to divide fractions by fractions.</p>	<ul style="list-style-type: none"> <li>Articles targeting fraction multiplication and division give students practice solving these types of problems.</li> </ul>
<p><b>6.NS</b> Compute fluently with multidigit numbers and find common factors and multiples.</p>	<ul style="list-style-type: none"> <li>Many problems throughout <i>Scholastic MATH</i> give students opportunities to practice using the standard algorithm for addition, subtraction, multiplication, and division of multidigit numbers, including integers and decimals.</li> <li>Feature articles focus on showing students how to find common factors and multiples, including greatest common factors and least common multiples.</li> </ul>
<p><b>6.NS</b> Apply and extend previous understandings of numbers to the system of rational numbers.</p>	<ul style="list-style-type: none"> <li>Articles provide real-world contexts for understanding and ordering positive and negative numbers.</li> <li>Students gain practice plotting positive and negative numbers on the number line and plotting points in all four quadrants of the coordinate plane.</li> </ul>
<p><b>7.NS</b> Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.</p>	<ul style="list-style-type: none"> <li>Students practice adding, subtracting, multiplying, and dividing positive and negative integers.</li> <li>Articles give real-world contexts for solving problems involving all four operations.</li> </ul>
<p><b>8.NS</b> Know that there are numbers that are not rational, and approximate them by rational numbers.</p>	<ul style="list-style-type: none"> <li>Students encounter irrational numbers such as <math>\pi</math> and <math>\sqrt{2}</math>.</li> </ul>
<p><b>Expressions and Equations</b></p> <p><b>6.EE</b> Apply and extend previous understandings of arithmetic to algebraic expressions.</p>	<ul style="list-style-type: none"> <li>Students evaluate expressions involving whole-number exponents and meaningful real-world and mathematical contexts.</li> <li>Students have many opportunities to write and evaluate expressions in which letters stand for numbers in real-world contexts, and to evaluate such expressions at specific values of their variables.</li> <li>In each issue, students evaluate arithmetic expressions with all four operations, using the order of operations, in the By the Numbers feature.</li> <li>Articles targeting properties such as inverse operations and problems involving solving algebraic equations promote student understanding of writing equivalent expressions.</li> </ul>

Standards for Math	Scholastic MATH
<p><b>Expressions and Equations</b></p> <p><b>6.EE</b> Reason about and solve one-variable equations and inequalities.</p>	<ul style="list-style-type: none"> <li>Articles in the magazine provide meaningful real-world problem contexts for which students can write and solve equations with one variable.</li> </ul>
<p><b>6.EE</b> Represent and analyze quantitative relationships between dependent and independent variables.</p>	<ul style="list-style-type: none"> <li>Students work with problems involving a dependent and an independent variable in the context of proportional and other linear relationships in both the magazine and online extension activities.</li> <li>Students develop an understanding of relationships between dependent and independent variables by looking at function tables and trends in line graphs.</li> </ul>
<p><b>7.EE</b> Use properties of operations to generate equivalent expressions.</p>	<ul style="list-style-type: none"> <li>Many problems throughout the magazine provide students with opportunities to practice rewriting linear expressions using the properties of operations.</li> </ul>
<p><b>7.EE</b> Solve real-life and mathematical problems using numerical and algebraic expressions and equations.</p>	<ul style="list-style-type: none"> <li>Regular features in Numbers in the News, as well as longer feature articles, provide opportunities for students to solve multistep problems with real-world contexts.</li> <li>Students perform numerical calculations in a variety of forms, convert between numerical forms regularly, and are encouraged to use different strategies in Teacher's Guide suggestions.</li> <li>Word problems with meaningful real-world contexts give students practice writing and solving linear equations with one variable.</li> </ul>
<p><b>8.EE</b> Work with radicals and integer exponents.</p>	<ul style="list-style-type: none"> <li>Articles support students in learning and using the properties of integer exponents and evaluating expressions with integer exponents.</li> <li>Problems in online extensions show students how to solve problems with <math>x^2</math> by using square root.</li> </ul>
<p><b>8.EE</b> Understand the connections between proportional relationships, lines, and linear equations.</p>	<ul style="list-style-type: none"> <li>Extension activities involving graphing proportional relationships and working with slope support student understanding of these concepts.</li> </ul>
<p><b>8.EE</b> Analyze and solve linear equations and pairs of simultaneous linear equations.</p>	<ul style="list-style-type: none"> <li>Problems throughout the magazine provide students with practice solving linear equations.</li> </ul>

Standards for Math	Scholastic MATH
<p><b>Geometry</b></p> <p><b>6.G</b> Solve real-world and mathematical problems involving area, surface area, and volume.</p>	<ul style="list-style-type: none"> <li>• Students find perimeter and area of known shapes like rectangles, triangles, and parallelograms, and area of compound shapes by decomposing them.</li> <li>• Students find volume and surface area of three-dimensional objects.</li> <li>• Students use the coordinate plane to draw polygons by plotting vertices at given points.</li> </ul>
<p><b>7.G</b> Draw, construct, and describe geometrical figures, and describe the relationships between them.</p>	<ul style="list-style-type: none"> <li>• Students work with and create scale models and geometric figures in hands-on extension activities.</li> </ul>
<p><b>7.G</b> Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.</p>	<ul style="list-style-type: none"> <li>• Students learn and use the formulas for area and perimeter of polygons in meaningful problem contexts.</li> <li>• Students learn and use the formulas for surface area of three-dimensional objects in meaningful problem contexts.</li> <li>• Students learn and use the formulas for volume of three-dimensional objects in meaningful problem contexts.</li> <li>• Articles support students in finding area of compound shapes by decomposing them.</li> </ul>
<p><b>8.G</b> Understand congruence and similarity using physical models, transparencies, or geometry software.</p>	<ul style="list-style-type: none"> <li>• Problems in practice tests support student learning about angle rotations.</li> <li>• Students develop understanding of the interior angles of triangles through practice test problems that involve examining and comparing them.</li> </ul>
<p><b>8.G</b> Understand and apply the Pythagorean Theorem.</p>	<ul style="list-style-type: none"> <li>• Students use the Pythagorean Theorem to find unknown sides of right triangles.</li> </ul>
<p><b>8.G</b> Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.</p>	<ul style="list-style-type: none"> <li>• In articles and online extensions, students learn and use the formulas for finding the volume of three-dimensional objects, including cylinders, cones, and spheres.</li> </ul>

Standards for Math	Scholastic MATH
<h3 data-bbox="224 226 724 277">Statistics and Probability</h3> <p data-bbox="126 319 191 361"><b>6.SP</b></p> <p data-bbox="224 289 652 348">Develop understanding of statistical variability.</p>	<ul data-bbox="824 289 1412 348" style="list-style-type: none"> <li>• Meaningful real-world contexts help students to calculate and make sense of measures of center.</li> </ul>
<p data-bbox="126 457 191 499"><b>6.SP</b></p> <p data-bbox="224 428 678 457">Summarize and describe distributions.</p>	<ul data-bbox="824 428 1477 617" style="list-style-type: none"> <li>• The graphs and charts in the Statistics column give students practice finding and interpreting measures of central tendency, including mean, median, and mode.</li> <li>• Students practice making and interpreting displays of numerical data, including box-and-whisker plots.</li> </ul>
<p data-bbox="126 688 191 730"><b>7.SP</b></p> <p data-bbox="224 659 708 718">Use random sampling to draw inferences about a population.</p>	<ul data-bbox="824 659 1468 743" style="list-style-type: none"> <li>• In working with statistical data sets from meaningful real-world contexts, students develop understanding of sampling to generalize about a population.</li> </ul>
<p data-bbox="126 823 191 865"><b>7.SP</b></p> <p data-bbox="224 793 750 852">Draw informal comparative inferences about two populations.</p>	<ul data-bbox="824 793 1451 911" style="list-style-type: none"> <li>• Students practice making informal comparative inferences about two or more data sets by looking at measures of central tendency in online extension activities.</li> </ul>
<p data-bbox="126 982 191 1024"><b>7.SP</b></p> <p data-bbox="224 953 727 1012">Investigate chance processes, and develop, use, and evaluate probability models.</p>	<ul data-bbox="824 953 1468 1079" style="list-style-type: none"> <li>• Students find probabilities of simple events.</li> <li>• Meaningful contexts for problems support student understanding of probability as a measure of greater or lesser likelihood.</li> </ul>
<p data-bbox="126 1167 191 1209"><b>8.SP</b></p> <p data-bbox="224 1138 659 1197">Investigate patterns of association in bivariate data.</p>	<ul data-bbox="824 1138 1474 1264" style="list-style-type: none"> <li>• Statistics articles provide students with opportunities to interpret and analyze scatter plots.</li> <li>• Students interpret slope and look for trends using graphs in Statistics articles.</li> </ul>
<h3 data-bbox="224 1335 425 1386">Functions</h3> <p data-bbox="126 1428 191 1470"><b>8.F</b></p> <p data-bbox="224 1398 704 1428">Define, evaluate, and compare functions.</p>	<ul data-bbox="824 1398 1451 1482" style="list-style-type: none"> <li>• Articles focus on promoting student understanding of functions using function tables and maps and representing functions in different ways.</li> </ul>
<p data-bbox="126 1562 191 1604"><b>8.F</b></p> <p data-bbox="224 1533 656 1591">Use functions to model relationships between quantities.</p>	<ul data-bbox="824 1533 1468 1751" style="list-style-type: none"> <li>• Specific articles focus on supporting students in using functions, asking them to fill in function tables, draw and use function maps, and construct functions to model linear relationships.</li> <li>• Students develop an understanding of functional relationships by interpreting and analyzing function tables and trends in line graphs.</li> </ul>

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