

Math Curriculum Calendar

Grade 5

Weeks 1-9	Operations and Algebraic Thinking	Numbers and Operations in Base Ten	Number and Operations- Fractions	Measurement and Data	Geometry
Priority Indicators----addressed and assessed					
<p><u>Week 1 – 3</u> Ch. 1: Number Sense</p> <p><u>Week 4 – 6</u> Ch. 2: Addition and Subtraction ½ Ch. 3: Multiplication</p> <p><u>Week 7 – 9</u> ½ Ch. 3: Multiplication Ch. 4: Division</p>		<p>5.1.1 Convert between numbers in words and numbers in figures, for numbers up to millions and decimals to thousandths.</p> <p>5.1.3 Arrange in numerical order and compare whole numbers or decimals to two decimal places by using the symbols for less than (<), equals (=), and greater than (>)</p> <p>5.2.5 Add and subtract decimals and verify the reasonableness of the results.</p> <p>5.5.7 Add and subtract with money in decimal notation.</p> <p>5.2.1 Solve problems involving multiplication and division of any whole numbers.</p>			
Supporting Indicators----addressed (not necessarily assessed)					
		<p>5.1.2 Round whole numbers and decimals to any place value</p> <p>4.2.1 Understand and use standard algorithms* for addition and subtraction.</p> <p>5.2.7 Use mental arithmetic to add or subtract simple decimals. 5.3.3</p> <p>Use the distributive property* in numerical equations and expressions</p> <p>5.7.1 Analyze problems by identifying relationships, telling relevant from irrelevant information, sequencing and prioritizing information, and observing patterns</p>			

Review and Maintenance---

<p><u>Weeks 1-9</u> Previous Year Acuity and ISTEP Data</p>		<p>5.7.9 Note the method of finding the solution and show a conceptual understanding of the method by solving similar problems</p>			
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Weeks 10-18	Operations and Algebraic Thinking	Numbers and Operations in Base Ten	Number and Operations- Fractions	Measurement and Data	Geometry
Priority Indicators----addressed and assessed					
<p><u>Week 10 - 12</u> <i>Ch. 8 & 9:</i> Fractions, Factors, and Multiples ½ <i>Ch. 10:</i> Add and Subtract Fractions</p> <p><u>Week 13 - 15</u> ½ <i>Ch. 10:</i> Add and Subtract Fractions <i>Ch. 13:</i> Geometry</p> <p><u>Week 16 - 18</u> <i>Ch. 14:</i> Area, Volume, and Perimeter ISTEP Review</p>			<p>5.1.7 Identify on a number line the relative position of simple positive fractions, positive mixed numbers, and positive decimals.</p> <p>5.2.2 Add and subtract fractions (including mixed numbers) with different denominators.</p>	<p>5.5.2 Solve problems involving perimeters and areas of rectangles, triangles, parallelograms, and trapezoids, using appropriate units.</p> <p>5.1.1 Understand and apply the formulas for the area of a triangle, parallelogram, and trapezoid.</p> <p>5.5.4 Find the surface area and volume of rectangular solids using appropriate units.</p>	<p>5.4.1 Measure, identify, and draw angles, perpendicular and parallel lines, rectangles, triangles, and circles by using appropriate tools (e.g., ruler, compass, protractor, appropriate technology, media tools).</p> <p>5.4.2 Identify, describe, draw, and classify triangles as equilateral*, isosceles*, scalene*, right*, acute*, obtuse*, and equiangular*.</p> <p>5.4.4 Identify, describe, draw, and classify polygons*, such as pentagons and hexagons</p>
Supporting Indicators----addressed (not necessarily assessed)					
		<p>5.1.6 Describe and identify prime and composite numbers.</p>	<p>5.2.3 Use models to show an understanding of multiplication and division of fractions</p> <p>5.1.5 Explain different interpretations of fractions: as parts of a whole, parts of a set, and division of whole numbers by whole numbers</p> <p>5.2.1 Solve problems involving multiplication and division of any whole numbers.</p> <p>5.2.4 Multiply and divide fractions to solve problems.</p>		<p>5.4.6 Identify shapes that have reflectional and rotational symmetry.</p> <p>5.4.7 Understand that 90°, 180°, 270°, and 360° are associated with quarter, half, three-quarters, and full turns, respectively.</p>

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<p><u>Weeks 10-18</u> Acuity A</p>		<p>5.2.1 Solve problems involving multiplication and division of any whole numbers. 5.1.1 Convert between numbers in words and numbers in figures, for numbers up to millions and decimals to thousandths.</p>			
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Weeks 19-27	Operations and Algebraic Thinking	Numbers and Operations in Base Ten	Number and Operations-Fractions	Measurement and Data	Geometry
Priority Indicators----addressed and assessed					
<p><u>Week 19 - 21</u> <i>Ch. 5:</i> Algebraic Expressions ½ <i>Ch. 11:</i> Measures in the Customary System <u>Week 22 - 24</u> ½ <i>Ch. 11:</i> Measures in the Customary System <i>Ch. 12:</i> Measures in the Metric System <u>Week 25 - 27</u> <i>Ch. 15:</i> Probability <i>Ch. 6:</i> Equations and Function Tables</p>	<p>5.3.1 Use a variable to represent an unknown number. 5.3.2 Write simple algebraic expressions in one or two variables and evaluate them by substitution. 5.3.7 Use information taken from a graph or equation to answer questions about a problem situation.</p>			<p>4.5.9 Add time intervals involving hours and minutes. 5.6.3 Understand that probability can take any value between 0 and 1, events that are not going to occur have probability 0, events certain to occur have probability 1, and more likely events have a higher probability than less likely events. 5.6.4 Express outcomes of experimental probability situations verbally and numerically (e.g., 3 out of 4, 3/4). 6.6.4 Show all possible outcomes for compound events in an organized way and find the theoretical probability of each outcome. 5.3.2 Write simple algebraic expressions in one or two variables and evaluate them by substitution. 5.3.1 Use a variable to represent an unknown number 5.3.4 Identify and graph ordered pairs of positive numbers.</p>	

Supporting Indicators----addressed (not necessarily assessed)					
	6.3.6 Apply the correct order of operations and the properties of real numbers (e.g., identity, inverse, commutative, associative, and distributive properties) to evaluate numerical expressions. Justify each step in the process			6.5.2 Understand and use larger units for measuring length by comparing miles to yards and kilometers to meters. 5.5.5 Understand and use the smaller and larger units for measuring weight (ounce, gram, and ton) and their relationship to pounds and kilograms. 4.5.8 Use volume and capacity as different ways of measuring the space inside a shape. 5.5.6 Compare temperatures in Celsius and Fahrenheit, knowing that the freezing point of water is 0°C and 32°F and that the boiling point is 100°C and 212°F. 5.3.5 Find ordered pairs (positive numbers only) that fit a linear equation, graph the ordered pairs, and draw the line they determine 5.3.7 Use information taken from a graph or equation to answer questions about a problem situation.	
Review and Maintenance---					
<u>Weeks 19-27</u> Acuity B		5.2.2 Add and subtract fractions (including mixed numbers) with different denominators. 5.2.1 Solve problems involving multiplication and division of any whole numbers.		5.5.1 Understand and apply the formulas for the area of a triangle, parallelogram, and trapezoid. 5.5.2 Solve problems involving perimeters and areas of rectangles, triangles, parallelograms and trapezoids, using appropriate units.	5.4.2 Identify, describe, draw, and classify triangles as equilateral, isosceles, scalene, right acute, obtuse and equiangular. 5.4.4 Identify, describe, draw and classify polygons, such as pentagons and hexagons.

Weeks 28-36	Operations and Algebraic Thinking	Numbers and Operations in Base Ten	Number and Operations-Fractions	Measurement and Data	Geometry
Priority Indicators----addressed and assessed					
<p><u>Week 28-30</u> Ch. 7: Graphs, Interpreting Data</p> <p><u>Week 31-33</u> <i>ISTEP Review</i></p> <p><u>Week 34 - 36</u> 6th Grade Preparation Skills</p> <p>Multiplication, Division, Fractions</p>				<p>5.6.2 Find the mean*, median*, mode*, and range* of a set of data and describe what each does and does not tell about the data set.</p> <p>6.6.2 Make frequency tables for numerical data, grouping the data in different ways to investigate how different groupings describe the data. Understand and find relative and cumulative frequency for a data set. Use histograms of the data and of the relative frequency distribution, and a broken line graph for cumulative frequency, to interpret the data</p>	
Supporting Indicators----addressed (not necessarily assessed)					
				<p>5.6.1 Explain which types of displays are appropriate for various sets of data.</p>	

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Weeks 28-36
Acuity C

5.2.2 Add and subtract fractions (including mixed numbers) with different denominators.

5.5.2 Solve problems involving perimeters and areas of rectangles, triangles, parallelograms and trapezoids, using appropriate units.
5.6.2 Find the mean, median, mode, and range of a set of data and describe what each does, and does not tell, about the data set.