

Math Calendar

Grade 4

Weeks 1-3	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
Ch. 1: Place Value	<p>4.1.1 Read and write whole numbers up to 1,000,000</p> <p>4.1.3 Round whole numbers up to 10,000 to the nearest ten, hundred, and thousand</p> <p>4.1.4 Order and compare whole numbers using symbols for "less than" (<), "equal to" (=), and "greater than" (>)</p>						
Supporting Indicators-----addressed (not necessarily assessed)							
	<p>4.1.2 Identify and write whole numbers up to 1,000,000 given place-value model.</p>						<p>4.7.1 Analyze problems by identifying relationships, telling relevant from irrelevant information, sequencing and prioritizing information, and observing patterns.</p> <p>4.7.8 Make precise calculations and check the validity of the results in the context of the problem.</p>
Review and Maintenance							
Previous year Acuity and ISTEP data							

Weeks 4-6	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<i>Ch. 2:</i> Addition and Subtraction <i>½ Ch. 4:</i> Multiplication and Division		4.2.1 Understand and use standard algorithms for addition and subtraction. 4.2.2 Represent as multiplication any situation involving repeated addition. 4.2.4 Demonstrate mastery of the multiplication tables for numbers between 1 and 10 and of the corresponding division facts.					
Supporting Indicators----addressed (not necessarily assessed)							
		4.2.7 Understand the special properties of 0 and 1 in multiplication and division. 4.2.3 Represent as division any situation involving the sharing of objects or the number of groups of shared objects.					4.7.2 Decide how and when to break a problem into simpler parts.
Review and Maintenance							
Previous year Acuity and ISTEP data	4.1.1 4.1.2 4.1.3 4.1.4						

Weeks 7-9	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<p><i>½ Ch. 4:</i> Multiplication and Division</p> <p><i>Ch. 3 Review Only:</i> Organizing and Displaying Data</p>		<p>4.2.5 Use standard algorithm to multiply numbers up to 100 by numbers up to 10, using relevant properties of the number system.</p> <p>4.2.11 Know and use strategies for estimating results of any whole-number computations.</p> <p>4.2.12 Use mental arithmetic to add or subtract numbers rounded to hundreds or thousands.</p>					
Supporting Indicators----addressed (not necessarily assessed)							
		<p>4.2.7 Understand the special properties of 0 and 1 in multiplication and division.</p>				<p>4.6.1 Represent data on a number line and in tables, including frequency tables.</p> <p>4.6.2 Interpret data graphs to answer questions about a situation.</p>	<p>4.7.6 Recognize the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy.</p> <p>4.7.7 Know and use appropriate methods for estimating results of whole-number computations.</p>
Review and Maintenance							
<p>Previous year Acuity and ISTEP data</p>		<p>4.2.1 4.2.2 4.2.3 4.2.4 4.2.6 4.2.7</p>					<p>4.7.1 4.7.2 4.7.8</p>

Weeks 10-12	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
Ch. 5: Algebraic Patterns ½ Ch. 6: Multiply by One Digit			<p>4.3.1 Use letters, boxes, or other symbols to represent any number in simple expressions, equations, or inequalities.</p> <p>4.3.2 Use and interpret formulas to answer questions about quantities and their relationships.</p> <p>4.3.4 Understand that an equation such as $y=3x +5$ is a rule for finding a second number when a first number is given.</p>				
Supporting Indicators----addressed (not necessarily assessed)							
			<p>4.3.6 Recognize and apply the relationships between addition and multiplication, between subtraction and division, and the inverse relationship between multiplication and division to solve problems.</p> <p>4.3.8 Plot and label whole numbers on a number line up to 100. Estimate positions on the number line.</p>				<p>4.7.4 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, tools and models to solve problems.</p>
Review and Maintenance							
Acuity A Data	4.1.1 4.1.2 4.1.3 4.1.4	4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 4.2.7 4.2.11 4.2.12				4.6.1 4.6.2 4.6.3	4.7.1 4.7.2 4.7.8

Weeks 13-15	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<p><i>½ Ch. 6:</i> Multiply by One Digit</p> <p><i>Ch. 7:</i> Multiply by Two Digits</p>		<p>4.2.5 Use standard algorithm to multiply numbers up to 100 by numbers up to 10, using relevant properties of the number system.</p> <p>4.2.11 Know and use strategies for estimating results of any whole-number computations.</p>	<p>4.3.7 Relate problem situations to number sentences involving multiplication and division.</p>				
Supporting Indicators----addressed (not necessarily assessed)							
			<p>4.3.6 Recognize and apply the relationships between addition and multiplication, between subtraction and division, and the inverse relationship between multiplication and division to solve problems.</p>				<p>4.7.4 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, tools and models to solve problems.</p> <p>4.7.5 Express solutions clearly and logically by using the appropriate mathematical terms and notation.</p>
Review and Maintenance							
Acuity A Data	<p>4.1.1</p> <p>4.1.2</p> <p>4.1.3</p> <p>4.1.4</p>	<p>4.2.1</p> <p>4.2.2</p> <p>4.2.3</p> <p>4.2.4</p> <p>4.2.6</p> <p>4.2.7</p> <p>4.2.12</p>	<p>4.3.1</p> <p>4.3.2</p> <p>4.3.4</p> <p>4.3.8</p>				<p>4.7.6</p> <p>4.7.7</p>

Weeks 16-18	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<i>Ch. 8: Divide by One Digit</i>		4.2.6 Use a standard algorithm to divide numbers up to 100 by numbers up to 10 without remainders, using relevant properties of the number system.	4.3.3 Understand that multiplication and division are performed before addition and subtraction in expressions without parentheses. 4.3.5 Continue number patterns using multiplication and division.				
Supporting Indicators----addressed (not necessarily assessed)							
			4.3.6 Recognize and apply the relationships between addition and multiplication, between subtraction and division, and the inverse relationship between multiplication and division to solve problems.				4.7.4 Use a variety of methods, such as words, numbers, symbols, charts, graphs, tables, diagrams, tools and models to solve problems. 4.7.5 Express solutions clearly and logically by using the appropriate mathematical terms and notation.
Review and Maintenance							
Acuity A Data	4.1.1 4.1.2 4.1.3 4.1.4	4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.7 4.2.11 4.2.12	4.3.1 4.3.2 4.3.4 4.3.7 4.3.8				

Weeks 19-21	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<i>Ch. 13:</i> Describe and Compare Fractions	4.1.5 Rename and rewrite whole numbers as fractions. 4.1.6 Name and write mixed numbers, using objects or pictures.	4.2.8 Add and subtract fractions with different denominators, using objects or pictures.					
Supporting Indicators-----addressed (not necessarily assessed)							
	4.1.7 Name and write mixed numbers as improper fractions, using objects or pictures.						4.7.3 Apply strategies and results from simpler problems to solve more complex problems.
Review and Maintenance							
Acuity B Data	4.1.1 4.1.2 4.1.3 4.1.4	4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 4.2.7 4.2.11 4.2.12	4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 4.3.7 4.3.8				4.7.4 4.7.5

Weeks 22-24	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
Ch. 14: Decimals Review Math Probability	4.1.8 Write tenths and hundredths in decimal and fraction notations. Know the fraction and decimal equivalents for halves and fourths.	4.2.8 Add and subtract fractions with different denominators, using objects or pictures. 4.2.10 Use a standard algorithm to add and subtract decimals (to hundredths).					
Supporting Indicators----addressed (not necessarily assessed)							
		4.2.1 Understand and use standard algorithms for addition and subtraction.				4.6.3 Summarize and display the results of probability experiments in a clear and organized way.	4.7.3 Apply strategies and results from simpler problems to solve more complex problems.
Review and Maintenance `							
Acuity B Data	4.1.5 4.1.6 4.1.7	4.2.5 4.2.6 4.2.7 4.2.8				4.6.1 4.6.2	

Weeks 25-27	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<i>ISTEP Review</i> <i>Ch. 9: Geometry</i>				4.4.1 Identify, describe, and draw rays, right angles, acute angles, obtuse angles, and straight angles using appropriate mathematical tools and technology. 4.4.3 Identify, describe, and draw parallelograms, rhombuses, and trapezoids, using appropriate mathematical tools and technology. 4.4.5 Identify and draw lines of symmetry in polygons.			
Supporting Indicators-----addressed (not necessarily assessed)							
				4.4.2 Identify, describe, and draw parallel, perpendicular, and oblique lines using appropriate mathematical tools and technology. 4.4.4 Identify congruent quadrilaterals and give reasons for congruence using sides, angles, parallels and perpendiculars. 4.4.6 Construct cubes and prisms and describe their attributes.			
Review and Maintenance							
Acuity B data		4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 4.2.7 4.2.8 4.2.11 4.2.12	4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 4.3.7 4.3.8				

Weeks 28-30	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<i>Ch. 15: Adding and Subtracting Decimals</i> <i>ISTEP Review</i>	4.1.9 Round two- place decimals to tenths or to the nearest whole number. 4.1.8 Write tenths and hundredths in decimal and fraction notations. Know the fraction and decimal equivalents for halves and fourths.	4.2.10 Use a standard algorithm to add and subtract decimals (to hundredths).					
Supporting Indicators-----addressed (not necessarily assessed)							
		4.2.1 Understand and use standard algorithms for addition and subtraction. 4.2.9 Add and subtract simple fractions with different denominators, using objects or pictures.			4.5.10 Determine the amount of change from a purchase.		
Review and Maintenance							
Acuity C data	4.1.5 4.1.6 4.1.7 4.1.8 4.1.9	4.2.2 4.2.3 4.2.11 4.2.12	4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 4.3.7 4.3.8	4.4.1 4.4.2 4.4.3 4.4.4 4.4.5 4.4.6			

Weeks 31-33	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
<i>Ch. 11:</i> Length, Area, and Temperature					<p>4.5.1 Measure length to the nearest quarter-inch, eighth-inch, and millimeter.</p> <p>4.5.2 Subtract units of length that may require renaming of feet to inches or meters to centimeters.</p> <p>4.5.4 Know and use formulas for finding the areas of rectangles and squares.</p>		
Supporting Indicators----addressed (not necessarily assessed)							
					4.5.3 Know and use formulas for find the perimeters of rectangles and squares.		
Review and Maintenance							
Acuity C data	4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.1.6 4.1.7 4.1.8 4.1.9	4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 4.2.7 4.2.8 4.2.9 4.2.10 4.2.11 4.2.12	4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 4.3.7 4.3.8	4.4.1 4.4.2 4.4.3 4.4.4 4.4.5 4.4.6			

Weeks 34-36	Number Sense 4.1	Computation 4.2	Algebra and Functions 4.3	Geometry 4.4	Measurement 4.5	Data Analysis and Probability 4.6	Problem Solving 4.7
Priority Indicators-----addressed and assessed							
Ch. 12: Capacity, Weight, and Volume Ch. 10 Review Only: Spatial Reasoning					<p>5.5.4 Find the surface area and volume of rectangular solids using appropriate units.</p> <p>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.</p> <p>4.5.8 Use volume and capacity as different ways of measuring the space inside a shape.</p>		
Supporting Indicators----addressed (not necessarily assessed)							
					<p>4.5.5 Estimate and calculate the area of rectangular shapes by using appropriate units.</p> <p>4.5.6 Understand that rectangles with the same area can have different perimeters and that rectangles with the same perimeter can have different areas.</p> <p>4.5.7 Find areas of shapes by dividing them into basic shapes such as rectangles.</p> <p>4.5.9 Add time intervals involving hours and minutes.</p>		<p>4.7.9 Decide whether a solution is reasonable in the context of the original situation.</p> <p>4.7.10 Note the method of finding the solution and show a conceptual understanding of the method by solving similar problems.</p>
Review and Maintenance							
Acuity C data	4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.1.6 4.1.7 4.1.8 4.1.9	4.2.1 4.2.2 4.2.3 4.2.4 4.2.5 4.2.6 4.2.7 4.2.8 4.2.9 4.2.10 4.2.11 4.2.12	4.3.1 4.3.2 4.3.3 4.3.4 4.3.5 4.3.6 4.3.7 4.3.8	4.4.1 4.4.2 4.4.3 4.4.4 4.4.5 4.4.6	4.5.1 4.5.2 4.5.3		