## 5th Grade Mathematics Curriculum Map 2023

Pacing Guide	Standard Code & Indicator	Sample Learning Activities	Sample Assessments	Additional Standards
August-November	<b>5.NBT.1</b> Recognize that in a multi-digit	-Place Value with		Interdisciplinary
	number, a digit in one place represents 10	Whole Numbers and	Formative	Standard:
	times as much as it represents in the place	Decimals	Assessments:	Science 5-ESS1-1 - Use
	to its right and $1/10$ of what it represents in		Quizzes	patterns with powers of
	the place to its left.	-Identify patterns	Homework/Classwork	10 to compare the
		when applying the	Teacher Observation	distance of the sun to
	<b>5.NBT.2</b> Explain patterns in the number of	power of 10	Task Cards	Earth's relative distance.
	zeros of the product when multiplying a		"I have, who has"	
	number by powers of 10, and explain	-Compare and Order		<b>Technology Standard:</b>
	patterns in the placement of the decimal	Decimals to the	Summative	8.2.5.ED.2: Collaborate
	point when a decimal is multiplied or	thousandths place	Assessments:	with peers to collect
	divided by a power of 10. Use		-Chapter Test	information, brainstorm
	whole-number exponents to denote powers	-Round and Estimate	-Place Value, Comparing,	to solve a problem, and
	of 10.	Decimals	and Rounding Decimals	evaluate all possible
			Google Forms	solutions to provide the
	<b>5.NBT.3</b> Read, write, and compare	-Adding and	Assessment	best results with
	decimals to thousandths.	subtracting decimals		supporting sketches or
				models.
	<b>5.NBT.3a</b> Read and write decimals to	-Multiply and divide	Benchmark	
	thousandths using base-ten numerals,	Whole numbers	Assessment:	
	number names, and expanded form.		LinkIt BOY Benchmark	
		-Understand the Order	BOY Benchmark	
	<b>5.NBT.3b</b> Compare two decimals to	of Operations		
	thousandths based on meanings of the			

digits in each place, using >, =, and < symbols to record the results of	(including parentheses, brackets or braces)	Accommodations and Modifications	
comparisons.	-Read, write and solve		
<b>5.NBT.4</b> Use place value understanding to round decimals to any place	Numerical Expressions		
<ul> <li>5.NBT.5 Fluently multiply multi-digit whole numbers using the standard algorithm.</li> <li>5.NBT.6 Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.</li> <li>5.NBT.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operation; relate the strategy to a written method and explain the reasoning used.</li> <li>5.OA.1 Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.</li> </ul>	Numerical Expressions Instructional Resources: -Big Ideas -Decimals Place Value Spiral Review Google Slides Teacher Technology: Activ Panel Student Technology: Google Classroom Chromebooks Pearsonrealize.com Google Slides - Multiplication Bingo Google Forms IXL		

5.OA.2 Write record calcula interpret nume evaluating the	simple expressions that tions with numbers, and erical expressions without m.			
December-March <b>5.NBT.7</b> Add, divide decima concrete mode based on place operations, an addition and s strategy to a w the reasoning <b>5.NF.1</b> Add ar unlike denomin numbers) by r equivalent frac produce an eq fractions with <b>5.NF.2</b> Solve v addition and s referring to the cases of unlike using visual fr to represent th Use benchmar 	subtract, multiply, and ls to hundredths, using els or drawings and strategies e value, properties of d/or the relationship between ubtraction; relate the vritten method and explain used. and subtract fractions with inators (including mixed eplacing given fractions with ctions in such a way as to uivalent sum or difference of like denominators. word problems involving ubtraction of fractions e same whole, including e denominators, e.g., by raction models or equations he problem. k fractions and number ons to estimate mentally and conableness of answers.	<ul> <li>-Multiply and divide decimals</li> <li>-Define, identify and apply understanding Prime and Composite Numbers</li> <li>-Determine if a number is prime or composite</li> <li>-Understand and apply the steps to Prime Factorization</li> <li>-Relate Fractions to Division</li> <li>-Determine the GCF and LCM</li> <li>- Explore Fractions, Mixed Numbers, and Improper Fractions</li> <li>-Understand how to determine Equivalent Fractions</li> </ul>	Formative Assessments: Quizzes Homework/Classwork Teacher Observation Prime Factorization Quiz Summative Assessments: Chapter Test Lemonade Stand Operations with Fractions and Decimals Project Accommodations and Modifications	Interdisciplinary Standard: Career Readiness 9.1.5.PB.1: Lemonade Stand Operations with Fractions and Decimals Project - Use budget to create items to be purchased. Use multiplication and division of decimals to determine how much to sell each item for. Use decision making strategies to determine price. Technology Standard: 8.2.5.ED.2: Collaborate with peers to collect information, brainstorm to solve a problem, and evaluate all possible solutions to provide the best results with supporting sketches or models.

of the other factor, without performing the		Performing Arts
indicated multiplication.	-Apply the steps to	<b>1.5.5.Cr1a:-</b> Dog
	putting a fraction into	House Project - Create
<b>5.NF.5b</b> Interpret multiplication as scaling	simplest form	dog house using
by explaining why multiplying a given		fractions to determine
number by a fraction greater than 1 results	-Add and Subtract	amount of material
in a product greater than the given number	Fractions and Mixed	needed, at each point of
(recognizing multiplication by whole	Numbers	dog's life as puppy
numbers greater than 1 as a familiar case);		develops through
explaining why multiplying a given	- Add, Subtract,	adulthood.
number by a fraction less than 1 results in	Multiply and Divide	
a product smaller than the given number;	Decimals	Technology Standard:
and relating the principle of fraction		8.2.5.ED.2: Collaborate
equivalence $a/b = (n \times a)/(n \times b)$ to the	-Identify and discuss	with peers to collect
effect of multiplying $a/b$ by 1.	Decimal Zero Patterns	information, brainstorm
		to solve a problem, and
5.NF.B.7Apply and extend previous	-Interpret	evaluate all possible
understandings of multiplication to	multiplication as	solutions to provide the
multiply a fraction or whole number by a	scaling	best results with
fraction.		supporting sketches or
	- Understand and	models.
<b>5.NF.B.4</b> Interpret the product $(a/b) \times q$ as	apply the steps to	
a parts of a partition of q into b equal	multiplying a fraction	
parts; equivalently, as the result of a	by a fraction/whole	
sequence of operations $a \times q \div b$ .	number	
5.NF.B.6 Solve real world problems	-Use visual fraction	
involving multiplication of fractions and	models to assist in	
mixed numbers, e.g., by using visual	problem solving	
fraction models or equations to represent		
the problem.	-Understand and apply	
	the steps to dividing a	
5.NF.B.7 Apply and extend previous	fraction	
understandings of division to divide unit		

	<ul> <li>fractions by whole numbers and whole numbers by unit fractions.</li> <li>5.NF.B.7A Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.</li> <li>5.NF.B.7B Interpret division of a whole number by a unit fraction, and compute such quotients.</li> <li>5.NF.B.7C Solve real world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions, e.g., by using visual fraction models and equations to represent the problem.</li> <li>5.NF.B.3 Interpret a fraction as division of the numerator by the denominator Solve word problems involving division of mixed numbers, e.g., by using visual fraction models or equations to represent the problem.</li> </ul>	Instructional Resources: Big Ideas Textbook Task Cards Dividing Fractions Prime Factorization Maze Teacher Technology: Activ Panel Dividing Fractions Song Student Technology: Google Classroom Chromebooks IXL Google Slides & Forms		
April	<b>5.G.3</b> Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category. For example, all rectangles have four right angles and squares are	-Define, identify and describe: points, lines, line segments and rays -Understand the characteristics of polygons	Formative Assessments: Quizzes Homework/Classwork Teacher Observation	Interdisciplinary Standard: Performing Arts 1.5.5.Cr1a: - Design Dream House Project using angles & area of compound figures

<ul> <li>rectangles, so all squares have four right angles.</li> <li>5.G.4 Classify two-dimensional figures in a hierarchy based on properties.</li> <li>5.NF.4.b Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths, and show that the area is the same as would be found by multiplying the side lengths. Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.</li> <li>5.MD.C3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.</li> </ul>	<ul> <li>-Classify quadrilaterals and other 2D shapes</li> <li>-Identify and recognize angles</li> <li>-Recognize triangles and describe their attributes</li> <li>-Identify and describe the attributes of different 3D figures</li> <li>-Determine perimeter and area</li> <li>-Recognize and measure volume</li> </ul>	Summative Assessments: Chapter Test Dream House Project Accommodations and Modifications	<b>Technology Standard:</b> 8.2.5.ED.2: Collaborate with peers to collect information, brainstorm to solve a problem, and evaluate all possible solutions to provide the best results with supporting sketches or models.
<b>5.MD.C3a</b> A cube with side length 1 unit, called a "unit cube," is said to have "one cubic unit" of volume, and can be used to measure volume.	-Find the volume of a right rectangular prism		
<b>5.MD.C3b</b> A solid figure which can be packed without gaps or overlaps using $n$ unit cubes is said to have a volume of $n$ cubic units.	<b>Instructional</b> <b>Resources:</b> Big Ideas Textbook Task Cards		
<b>5.MD.C4</b> Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and non-standard units.	<b>Teacher Technology:</b> Activ Panel		

<ul> <li>5.MD.C5 Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume.</li> <li>5.MD.C5a Find the volume of a right rectangular prism with whole-number side lengths by packing it with unit cubes, and show that the volume is the same as would be found by multiplying the edge lengths, equivalently by multiplying the height by the area of the base. Represent threefold whole-number products as volumes, e.g., to represent the associative property of multiplication</li> </ul>	<b>Student Technology:</b> Google Classroom Chromebooks Google Slides & Forms IXL	
<b>5.MD.C5b</b> Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real world and mathematical problems. <b>5.MD.C5c</b> Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the		

May-June	<b>5.MD.1</b> Convert among different-sized	-Change units in	Formative	Interdisciplinary
-	standard measurement units within a given	customary	Assessments:	Standard :
	measurement system and use these	measurement	Quizzes	5-ESS1-1 - Solar System
	conversions in solving multi-step, real		Homework/Classwork	Project - Convert
	world problems.	-Understand and use	Teacher Observation	measurements based on
		the metric system	Conversion Quiz	relative distances from
	5 MD 2 Males a line plat to display a data			the Sun.
	set of measurements in fractions of a unit	-Convert measurement	Summative	
	Use operations on fractions for this grade	units	Assessments:	
	to solve problems involving information		Chapter Test	<b>Technology Standard:</b>
	presented in line plots	-Create a line plot to	"This Old Recipe"	8.2.5.ED.2: Collaborate
	presented in fine plots.	display data (using	Challenge	with peers to collect
	<b>5 OA 3</b> Generate two numerical natterns	measurements in		information, brainstorm
	using two given rules. Identify apparent	fractions)		to solve a problem, and
	relationships between corresponding	~ · ·	Benchmark	evaluate all possible
	terms Form ordered pairs consisting of	-Create and analyze	Assessment:	solutions to provide the
	corresponding terms from the two	number patterns and	Linklt EOY Benchmark	best results with
	patterns and graph the ordered pairs on a	sequences	EOY Benchmark	supporting sketches or
	coordinate plane			models.
		- Form and understand	Accommodations and	
	<b>5.G.1</b> Use a pair of perpendicular number	ordered pairs	Modifications	
	lines called axes to define a coordinate	TT 1 / 1' /		
	system, with the intersection of the lines	-Understand integers		
	(the origin) arranged to coincide with the 0	TT 1' / '1		
	on each line and a given point in the plane	-Use a coordinate grid		
	located by using an ordered pair of	I. J		
	numbers, called its coordinates.	-Identify x and y axis		
	Understand that the first number indicates			
	how far to travel from the origin in the	-Graph ordered pairs		
	direction of one axis, and the second	applying knowledge of		
	number indicates how far to travel in the	griu allu axes		
	direction of the second axis, with the			
	convention that the names of the two axes			

and the coordinates correspond (e.g.	Instructional	
and the coordinates correspond (e.g.,	Deservess	
x-axis and x-coordinate, y-axis and	Resources:	
y-coordinate).	Big Ideas Textbook	
	Task cards	
5.G.2 Represent real world and	"Hollywood Squares"	
mathematical problems by graphing points	game	
in the first quadrant of the coordinate	Coordinate Planes	
plane, and interpret coordinate values of	Song	
points in the context of the situation.		
	<b>Teacher Technology:</b>	
	Activ Panel	
	Activ View	
	Student Technology:	
	Google Classroom	
	Close week a slop	
	Chromebooks	
	Google Slides &	
	Forms	
	iPads	
	IXL	

Alternate Assessments: Mystery Picture Coordinate Project, Solar System Project, Variety of worksheets 21st Century Standards: 9.1.8.A.6, 9.1.8.B.5, 9.1.8.E.1

21st Century Skills: Creativity, Collaboration, Critical Thinking

Career Ready Practices: CRP2, CRP8, CRP12