

4th Grade Math Scope and Sequence 2020 – 2021

TEKS Distribution among Units

Process Standards

	4.1A	4.1B	4.1C	4.1D	4.1E	4.1F	4.16
Unit 1	Х	Х	Х	Х	Х	Х	Х
Unit 2	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Unit 3	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Unit 4	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Unit 5	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Unit 6	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Unit 7	Х	Χ	Х	Χ	Х	Х	Χ
Unit 8	Χ	Χ	Χ	Χ	Χ	Χ	Χ
Unit 9	Χ	Χ	Χ	Χ	Χ	Χ	Χ

Content Standards

	4.2A	4.2B	4 2C	4.2D	A 2F		3 1	ПС Г			3 1	4.30.4	֓֞֟֞֟֝֟֝֟֟֝֟֟ ֓֞֓֞֞֞֞֞֞֞֞֞֞֞֞֞֞֞֩֞֞֞֞֩֞֞֩֞֞֩֞֩֞֩֞֩֞֩֞	4.3F		4.30		٠,	7	_:	4.4D*	4.4F	4.4F*	4.46	4.4H*	4.5A*	4.5B*	4.5C	4.5D*	4.6A	4.6B	4.6C	4.6D*	3.7C	4.7A	4.7B	4.7C*	4.7D	4.7E	4.8A	4.8B	4.8C*	4.9A*	4.9B	4.10A	4.10B	4.10C		
Unit 1	Χ	Χ	Х	Χ													Х	Х						Х		Х																				Χ			
Unit 2	Χ															X		Х	X	()	X	X :	Х	Х	Х	Χ																Χ				Χ			
Unit 3									Χ	Х	Х	Χ	Χ	Х	Х																																		
Unit 4	Χ	Χ			Х	Х	Χ	Х							Х		Х																									Х							
Unit 5																											Χ													Χ	Χ								
Unit 6																														Χ	Χ	Χ	Χ		Χ	Χ	Χ	Χ	Χ										
Unit 7																			Х						Х	Х		Х	Х					X						Χ		Χ							
Unit 8													Х		Х		Х																										Χ	Χ	Χ		Χ	Х	Х
Unit 9									Χ	Х	Х	Χ			Х																																		



4th Grade Math Scope and Sequence 2020 – 2021

Process Standards:

- 4.1A apply mathematics to problems arising in everyday life, society, and the workplace
- 4.1B use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution
- 4.1C select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems
- 4.1D communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate
- 4.1E create and use representations to organize, record, and communicate mathematical ideas
- 4.1F analyze mathematical relationships to connect and communicate mathematical ideas
- 4.1G display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication

Grading Period 1

Note: Includes 2 days for 2020 – 2021 School Year Orientation

Unit 1: Whole Numbers - Numeration, Addition and Subtraction

Estimated Date Range: 8/17/20-9/09/20 Estimated Time Frame: 17 days

Note: Includes 2 days for Re-engagement and Assessment

Concepts within the Unit	TEKS
Concept #1: Launching Mathematical	In this concept we are Launching Mathematical Mindsets using You Cubed resources along with supports for setting
Mindsets	up Math Workshop in the classroom. The focus is on students getting used to classroom routines while engaging in math related activities that promote sense making, perseverance, and teamwork.
Suggested Days: 3	
Concept #2: Compare and Order Whole	<u>Integrated Standards</u>
Numbers	4.2A interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left
Suggested Days: 6	4.2B represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals
	4.2C compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols >, <, or =
	4.2D round whole numbers to a given place value through the hundred thousands place
	4.4B determine products of a number and 10 or 100 using properties of operations and place value understandings



Concept#3: Adding and Subtracting Whole Numbers	Priority Standards 4.4A Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.
Whole Numbers	4.5A Represent multi-step problems involving the four operations with whole number using strip diagrams and
Suggested Days: 5	equations with a letter standing for the unknown quantity
	a quantities and a second a second and a second a second and a second a second and a second and a second and a second and
	Integrated Standards
	4.4G round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole
	numbers
	4.10B calculate profit in a given situation
	Unit 2: Understanding Multi-Digit Multiplication & Division
	Estimated Date Range: 9/10/20 – 10/16/20
	Estimated Time Frame: 27 days Note: Includes 2 days for Re-engagement and Assessment
Concepts within the Unit	TEKS
Concept #1: Multi-Digit Multiplication	Priority Standards
	4.4D Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a
Suggested Days: 9	one-digit number and to multiply a two-digit number by a two-digit number. Strategies may include mental
	math, partial products, and the commutative, associative, and distributive properties.
	Integrated Standards
	4.4B determine products of a number and 10 or 100 using properties of operations and place value understandings
	4.4C represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect
	squares through 15 by 15
	4.4G round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole
	numbers
	3.4G- use strategies and algorithms, including the standard algorithm, to multiply a two-digit number by a one-digit
	number. Strategies may include mental math, partial products, and the commutative, associative, and
	distributive properties.



Concept#2: Multi-Digit Division	Priority Standards
	4.4F Use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a
Suggested Days: 7	one-digit divisor
	<u>Integrated Standards</u>
	4.4E represent the quotient of up to a four-digit whole number divided by a one-digit whole number using arrays, area models, or equations
	4.4G round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole numbers
Concept #3: Multi-Step Problems	Priority Standards
Involving Multiplication	4.4H Solve with fluency one- and two-step problems involving multiplication and division, including interpreting
and Division	remainders
	4.5A Represent multi-step problems involving the four operations with whole number using strip diagrams and
Suggested Days: 9	equations with a letter standing for the unknown quantity
District Learning Assessment (Fall)	Important Standards
10/7/20 – 10/13/20	4.4D Use strategies and algorithms, including the standard algorithm, to multiply up to a four-digit number by a
Reporting Due Date 10/20/20	one-digit number and to multiply a two-digit number by a two-digit number. Strategies may include mental math, partial products, and the commutative, associative, and distributive properties
	4.4F Use strategies and algorithms, including the standard algorithm, to divide up to a four-digit dividend by a one-digit divisor
	4.8C solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money
	using addition, subtraction, multiplication, or division as appropriate
	<u>Integrated Standards</u>
	4.4G round to the nearest 10, 100, or 1,000 or use compatible numbers to estimate solutions involving whole
	numbers
	4.10B calculate profit in a given situation



	Grading Period 2						
	Unit 3: Fractions & Fraction Operations						
	Estimated Date Range: 10/19/20-11/13/20						
	Estimated Time Frame: 21 days						
	Note: Includes 2 days for Re-engagement and Assessment						
Concepts within the Unit	TEKS						
Concept #1: Equivalent Forms of	Priority Standards						
Fractions	4.3B decompose a fraction in more than one way into a sum of fractions with the same denominator using						
	concrete and pictorial models and recording results with symbolic representations						
Suggested Days: 7							
,	Integrated Standards						
	4.3A represent a fraction a/b as a sum of fractions 1/b, where a and b are whole numbers and b > 0, including						
	when a > b						
	4.3C determine if two given fractions are equivalent using a variety of methods						
	4.3G represent fractions and decimals to the tenths or hundredths as distances from zero on a number line						
Concept #2: Working with Fractions	Priority Standards:						
	4.3D compare two fractions with different numerators and different denominators and represent the						
Suggested Days: 12	comparison using the symbols >, =, or <						
	Important Standard:						
	4.3B decompose a fraction in more than one way into a sum of fractions with the same denominator using concrete and pictorial models and recording results with symbolic representations						
	 Integrated Standards 4.3C determine if two given fractions are equivalent using a variety of methods 4.3E represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations 4.3G represent fractions and decimals to the tenths or hundredths as distances from zero on a number line 4.3E surface the research largest of surface and differences of fractions using bonds reach models fractions 0. 1/4, 1/2, 2/4 						
	4.3F evaluate the reasonableness of sums and differences of fractions using benchmark fractions 0, 1/4, 1/2, 3/4, and 1, referring to the same whole						



	Unit 4: Decimals & Decimal Operations
	Estimated Date Range: 11/18/20-12/18/20
	Estimated Time Frame: 32 Days (GP2-18 Days and GP3-12 Days)
	Note: Includes 2 days for Re-engagement and Assessment
Concepts within the Unit	TEKS
Concept #1: Relating Decimals to	Priority Standards
Fractions	4.2G relate decimals to fractions that name tenths and hundredths
Suggested Days: 6	<u>Integrated Standards</u>
	4.2A interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left;
	4.2E represent decimals, including tenths and hundredths, using concrete and visual models and money;
	4.2H determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line.
	4.3G represent fractions and decimals to the tenths or hundredths as distances from zero on a number line.
Concept #2: Decimals and Place Value	Integrated Standards
Suggested Days: 5	4.2A interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the value of the place to its left
Suggested Days. S	4.2B represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths
	using expanded notation and numerals
	4.2E represent decimals, including tenths and hundredths, using concrete and visual models and money
	4.2H determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line
Concept #3: Compare and Order	<u>Integrated Standards</u>
Decimals	4.2E represent decimals, including tenths and hundredths, using concrete and visual models and money
	4.2F compare and order decimals using concrete and visual models to the hundredths
Suggested Days: 7	4.2H determine the corresponding decimal to the tenths or hundredths place of a specified point on a number line



	Grading Period 3
	Unit 4: Decimals & Decimal Operations (continued)
	Estimated Date Range: 1/06/20-1/22/20
	Estimated Time Frame: 34 Days (GP2-22 Days and GP3-12 Days) Note: Includes 2 days for Re-engagement and Assessment
Concept #4: Adding and Subtracting	Priority Standards
Decimals	4.4A Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm
	Important:
Suggested Days: 10	4.8C solve problems that deal with measurements of length, intervals of time, liquid volumes, mass , and money using addition, subtraction, multiplication, or division as appropriate
District Learning Assessment (Spring)	Integrated Standards
1/13/21 - 1/20/21	4.2A interpret the value of each place-value position as 10 times the position to the right and as one-tenth of the
Reporting Due Date 1/27/21	value of the place to its left
	4.2E represent decimals, including tenths and hundredths, using concrete and visual models and money
	4.3G represent fractions and decimals to the tenths or hundredths as distances from zero on a number line
	Unit 5: Input and Output Tables
	Estimated Date Range: 1/25/21-2/11/21
	Estimated Time Frame: 14 days Note: Includes 2 days for Re-engagement and Assessment
Concepts within the Unit	TEKS
Concept #1: Generating Patterns	Priority Standards
	4.5B represent problems using an input-output table and numerical expressions to generate a number pattern
Suggested Days: 6	that follows a given rule representing the relationship of the values in the resulting sequence and their position
	in the sequence.
Concept #2: Understanding Conversions	<u>Integrated Standards</u>
	4.8A identify relative sizes of measurement units within the customary and metric systems
Suggested Days: 6	4.8B convert measurements within the same measurement system, customary or metric, from a smaller unit into
	a larger unit or a larger unit into a smaller unit when given other equivalent measures represented in a table



	Unit C. Angles and Delugens
	Unit 6: Angles and Polygons
	Estimated Date Range: 2/16/21-3/12/21 Estimated Time Frame: 19 days
	Note: Includes 2 days for Re-engagement and Assessment
Concepts within the Unit	TEKS
Concept #1: Understanding and	Priority Standards
Measuring Angles	4.7C determine the approximate measures of angles in degrees to the nearest whole number using a protractor
Suggested Days: 11	Integrated Standards
,	4.6A identify points, lines, line segments, rays, angles , and perpendicular and parallel lines
	4.7A illustrate the measure of an angle as the part of a circle whose center is at the vertex of the angle that is "cut out" by the rays of the angle. Angle measures are limited to whole numbers
	4.7B illustrate degrees as the units used to measure an angle, where 1/360 of any circle is one degree and an
	angle that "cuts" n/360 out of any circle whose center is at the angle's vertex has a measure of n degrees. Angle measures are limited to whole numbers
	4.7D draw an angle with a given measure
	4.7E determine the measure of an unknown angle formed by two non-overlapping adjacent angles given one or
	both angle measures
Concept #2: Classifying Two-Dimensional	Priority Standards
Figures	4.6D classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the
_	presence or absence of angles of a specified size
Suggested Days: 7	
,	Important Standards
	4.7C determine the approximate measures of angles in degrees to the nearest whole number using a protractor
	<u>Integrated Standards</u>
	4.6A identify points, lines, line segments, rays, angles, and perpendicular and parallel lines
	4.6B identify and draw one or more lines of symmetry, if they exist, for a two-dimensional figure
	4.6C apply knowledge of right angles to identify acute, right, and obtuse triangles



	Grading Period 4
	Unit 7: Application of Geometry and Measurement
	Estimated Date Range: 3/22/21-4/16/21
	Estimated Time Frame: 19 days
Concepts within the Unit	Note: Includes 2 days for Re-engagement and Assessment TEKS
Concept #1: Solving Problems Involving	Priority Standards
Area and Perimeter	4.5D solve problems related to perimeter and area of rectangles where dimensions are whole numbers
Suggested Days: 10	Important:
	4.4H Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders
	4.5A Represent multi-step problems involving the four operations with whole number using strip diagrams and equations with a letter standing for the unknown quantity
	<u>Integrated Standards</u>
	4.5C use models to determine the formulas for the perimeter of a rectangle (I + w + I + w or 2I + 2w), including the special form for perimeter of a square (4s) and the area of a rectangle (I x w)
	4.4C represent the product of 2 two-digit numbers using arrays, area models, or equations, including perfect squares through 15 by 15
Concept #2: Solving Problems Involving	Priority Standards
Units of Measure	4.8C solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate
Suggested Days: 7	Important Standards:
	4.4H Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders
	<u>Integrated Standards</u>
	3.7C-determine the solutions to problems involving addition and subtraction of time intervals in minutes using
	pictorial models or tools such as a 15-minute event plus a 30 minute event equals 45 minutes.
	4.8A identify relative sizes of measurement units within the customary and metric systems





	Unit 8: Data Analysis and Personal Financial Literacy
	Estimated Date Range: 4/20/21-5/14/21 Estimated Time Frame: 19 days
	Note: Includes 2 days for Re-engagement and Assessment and 2 days for STAAR
Concepts within the Unit	TEKS
Concept #1: Personal Financial Literacy	Integrated Standards
concept with a crooman maneral electacy	4.10A distinguish between fixed and variable expenses
Suggested Days: 4	4.10C compare the advantages and disadvantages of various savings options
Juggesteu Duys. 1	4.10D describe how to allocate a weekly allowance among spending; saving, including for college; and sharing
	4.10E describe the basic purpose of financial institutions, including keeping money safe, borrowing money, and lending
Concept #2: Data Analysis	Priority Standards 4.9A represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and
Suggested Days: 12	fractions
Juggested Days. 12	Important Standards
	4.4A Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm
	Integrated Standards
	4.9B solve one- and two-step problems using data in whole number, decimal, and fraction form in a frequency
	table, dot plot, or stem-and-leaf plot
	4.3G represent fractions and decimals to the tenths or hundredths as distances from zero on a number line
	4.3E represent and solve addition and subtraction of fractions with equal denominators using objects and pictorial models that build to the number line and properties of operations



	Unit 9: Essential Understanding of 4 th Grade Estimated Date Range: 5/17/21-5/26/21 Estimated Time Frame: 7 days
	Note: Includes 2 days for Re-engagement and Assessment
Concepts within the Unit	TEKS
Concept #1: Equivalent Fractions and	Priority Standards
Comparisons	4.3D compare two fractions with different numerators and different denominators and represent the
	comparison using the symbols >, =, or <
Suggested Days: 5	<u>Integrated Standards</u>
	4.3A represent a fraction a/b as a sum of fractions 1/b, where a and b are whole numbers and b > 0, including when
	a > b
	4.3B decompose a fraction in more than one way into a sum of fractions with the same denominator using
	concrete and pictorial models and recording results with symbolic representations
	4.3C determine if two given fractions are equivalent using a variety of methods
	4.3G represent fractions and decimals to the tenths or hundredths as distances from zero on a number line

Learning Assessments

Semester	Assessment Administration Window	Content	Reporting Due Date
First Semester	10/7/20 - 10/13/20	4.4H & 4.5A	10/20/20
Second Semester	1/13/21 – 1/20/21	4.4A	1/27/21