

Grade 4 Scope and Sequence

Bluebonnet Learning K–5 Math Instructional Materials: Grade 4 Scope and Sequence

Module	Topics and Instructional Days	Knowledge and Skills	Standards (Bold = focus standard)
Module 1: Place Value, Rounding, and Algorithms for Addition and Subtraction	A: Place Value of Multi-Digit Whole Numbers B: Comparing and Ordering Multi-Digit Whole Numbers C: Rounding Multi-Digit Whole Numbers Mid-Module Assessment Task D: Multi-Digit Whole Number Addition E: Multi-Digit Whole Number Subtraction F: Addition and Subtraction Word Problems End-of-Module Assessment Task Assessments: 2 Lessons days: 19 Assessment days: 4 Total instructional days: 23	Students place value understanding of numbers up to 1 billion and applying that understanding to round, compare, and order numbers and to add and subtract multi-digit numbers. Students will: - Develop knowledge of larger place values by focusing on the <i>times ten</i> pattern on the place value chart. - Read numbers up to 1 billion and represent numbers in standard form, unit form, word form, and in expanded notation. - Compare and order whole numbers. - Round numbers through the hundred thousands place using the vertical number line. - Estimate solutions by using rounding and compatible numbers to decide whether their answers are reasonable. - Represent word problems using a strip diagram and a letter to represent an unknown quantity as they work toward becoming fluent with the standard algorithm for addition and subtraction.	TEKS MPS 4.1B 4.1C 4.1E 4.1F 4.1G TEKS 4.2A 4.2B 4.2C 4.2D 4.4A 4.4G 4.5A ELPS 1.A 1.B 1.F 2.C 2.E 2.I 3.B 3.D 3.E 3.F 3.G 3.H 4.D 4.F 4.G 5.B



Module	Topics and Instructional Days	Knowledge and Skills	Standards (Bold = focus standard)
Module 2: Unit Conversions and Problem Solving with Metric Measurement	A: Metric Unit Conversions B: Application of Metric Unit Conversions C: Input–Output Tables, Numerical Expressions, and Number Patterns End-of-Module Assessment Task Assessments: 1 Lessons days: 8 Assessment days: 2 Total instructional days: 10	Students focus on length, mass, and capacity in the metric system, converting units, and applying unit conversions to solve and reason about multi-step word problems. Additionally, students use input–output tables to represent the relationship between the input values and output values with numerical expressions. Students will: • Convert from larger units to smaller units (find equivalent measures). • Add and subtract amounts expressed in mixed units using a simplifying strategy or algorithm. • Compare metric units and plot and label measurements on a number line. • Solve word problems involving length, mass, and capacity using strip diagrams. • Identify relationships in number patterns and represent them in input–output tables • Apply their knowledge of input–output tables to solve word problems.	<u>TEKS MPS</u> 4.1A 4.1B 4.1C 4.1D 4.1E <u>TEKS</u> 4.5B 4.8A 4.8B 4.8C <u>ELPS</u> 1.E 2.I 3.C 3.E 3.G 3.H 4.G 5.B

Grade 4 Scope and Sequence (*Continued*)

Module	Topics and Instructional Days	Knowledge and Skills	Standards (Bold = focus standard)
Module 3: Multi-Digit Multiplication and Division	A: Multiplicative Comparison Word Problems B: Multiplication by 10 and 100 C: Multiplication of up to Four Digits by Single-Digit Numbers D: Multiplication Word Problems Mid-Module Assessment Task E: Division of Tens and Ones with Successive Remainders F: Division of Thousands, Hundreds, Tens, and Ones G: Multiplication of Two-Digit by Two-Digit Numbers End-of-Module Assessment Task Assessments: 2 Lessons days: 34 Assessment days: 4 Total instructional days: 38	Students use place value understanding and visual representations to solve multiplication and division problems with multi-digit numbers. Students will: - Use formulas to find the area, perimeter, and unknown side length(s) of a rectangle. - Multiply a whole number by 10, 100, or 1,000 (e.g., $5 \times 1,000$) and multiply a whole number by multiples of 10, 100, and 1,000 (e.g., $5 \times 5,000$). - Use an area model to represent the multiplication of a two-digit multiple of 10 by a two-digit multiple of 10 (e.g., 40×40). - Multiply one-digit numbers by numbers with up to four digits by using the standard algorithm, the partial products method, and the area model. - Solve multi-step word problems by using a combination of addition, subtraction, and multiplication. - Divide up to four-digit numbers by one-digit numbers by using place value disks, arrays, area models, and long division. - Solve division word problems with remainders. - Use the associative property to rewrite multiplication expressions. - Solve two-digit by two-digit multiplication problems by using area models, partial products, the distributive property, and the standard algorithm.	TEKS MPS 4.1A 4.1C 4.1D 4.1F TEKS 4.4B 4.4C 4.4D 4.4E 4.4F 4.4H 4.5A 4.5C 4.5D 4.2A 4.4G ELPS 1.B 1.D 1.E 1.F 2.C 2.D 2.E 2.I 3.D 3.E 3.F 3.H 4.C 4.G 5.B 5.F





Module	Topics and Instructional Days	Knowledge and Skills	Standards (Bold = focus standard)
Module 4: Angle Measure and Plane Figures	A: Lines and Angles B: Angle Measurement Mid-Module Assessment Task C: Problem Solving with the Addition of Angle Measures D: Two-Dimensional Figures and Symmetry End-of-Module Assessment Task Assessments: 2 Lessons days: 16 Assessment days: 4 Total instructional days: 20	Students are introduced to points, lines, line segments, rays, and angles, as well as the relationships between them. Then they apply that new understanding to classify figures and solve problems. Students will: - Identify and draw points, lines, line segments, rays, angles, perpendicular lines, and parallel lines. - Determine whether an angle is an acute angle, a right angle, or an obtuse angle. - Use protractors to measure and construct angles and record the measurements in degrees. - Interpret and explore quarter (90°) turns. - Compose angles of different measures by using pattern blocks. - Determine unknown angle measurements mathematically and then use a protractor to verify the measurements. - Find and draw lines of symmetry. - Identify, classify, and draw acute, right, and obtuse triangles. - Name quadrilaterals, identify attributes (i.e., characteristics) that define them, and construct them based on given attributes.	<u>TEKS MPS</u> 4.1C 4.1E 4.1F 4.1G <u>TEKS</u> 4.6A 4.6B 4.6C 4.6D 4.7A 4.7B 4.7C 4.7D 4.7E <u>ELPS</u> 1.E 2.C 2.E 2.F 2.I 3.D 3.E 3.F 3.H 4.D 4.F 5.G

Grade 4 Scope and Sequence (Continued)

Module	Topics and Instructional Days	Knowledge and Skills	Standards (Bold = focus standard)
Module 5: Fraction Equivalence, Ordering, and Operations	A: Decomposition and Fraction Equivalence B: Fraction Equivalence Using Multiplication and Division C: Fraction Comparison D: Fraction Addition and Subtraction Mid-Module Assessment Task E: Extending Fraction Equivalence to Fractions Greater Than 1 F: Addition and Subtraction of Fractions by Decomposition End-of-Module Assessment Task Assessments: 2 Lessons days: 31 Assessment days: 4 Total instructional days: 35	Students explore fraction equivalence and apply that understanding to compare, add, and subtract fractions, including mixed numbers and fractions greater than 1. Students will: - Decompose fractions as a sum of unit fractions (e.g., $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$). - Draw strip diagrams and area models to show decomposition and to find equivalent fractions. - Express equivalent fractions in a number sentence by using multiplication and division. - Plot fractions on a number line and compare fractions by referring to benchmarks. - Compare fractions with common and related numerators and denominators. - Add and subtract fractions with like units and record answers as mixed numbers, where applicable. - Use strip diagrams, number bonds, number lines, benchmarks, and area models to add, subtract, and compare fractions. - Convert fractions greater than 1 to mixed numbers, and vice versa. - Create a dot plot and solve problems related to its data. - Estimate the sum or difference of two mixed numbers. - Add and subtract fractions and mixed numbers by using different strategies.	TEKS MPS 4.1C 4.1D 4.1F 4.1G TEKS 4.3A 4.3B 4.3C 4.3D 4.3E 4.3F 4.9A 4.9B ELPS 1.E 2.C 2.E 2.I 3.D 3.E 3.F 3.G 3.H 4.C 4.D 4.F 4.G 5.F 5.G





Module	Topics and Instructional Days	Knowledge and Skills	Standards (Bold = focus standard)
Module 6: Introduction to Decimals and Financial Literacy	A: Exploration of Tenths B: Tenths and Hundredths	Students explore decimal numbers (tenths and hundredths) and apply that understanding to compare, order, add, and subtract decimal numbers. Then they extend that understanding to the real-world context of money and personal financial literacy. Students will: - Represent numbers in decimal form, fraction form, fraction expanded notation, decimal expanded notation, and unit form. - Shade area models to represent a mixed number and locate the number on a number line. - Plot and label points on a number line to represent decimal numbers written in fraction form and decimal form. - Compare and order decimal numbers. - Add and subtract tenths and hundredths. - Solve word problems requiring the addition or subtraction of numbers written in decimal form. - Determine the value of an amount of money by using unit form (dollars and cents) and then express the value in fraction form and in decimal form. - Manage an allowance by determining how to allocate the funds between fixed expenses and variable expenses. - Determine profit earned from the selling of goods or services.	TEKS MPS 4.1D 4.1E 4.1F
	Mid-Module Assessment Task C: Decimal Comparison D: Addition and Subtraction with Tenths and Hundredths E: Money Amounts as Decimal Numbers and Financial Literacy End-of-Module Assessment Task Assessments: 2 Lessons days: 18 Assessment days: 4 Total instructional days: 22		TEKS 4.2A 4.2B 4.2E 4.2F 4.2G 4.2H 4.3C 4.3G 4.4A 4.8C 4.10A 4.10B 4.10C 4.10D 4.10E 4.3E 4.8A 4.8B ELPS 1.A 1.D 1.E 1.F 2.C 2.E 2.F 2.I 3.E 3.H 3.J 4.D 4.E 4.G 5.B 5.G

Grade 4 Scope and Sequence (Continued)

Module	Topics and Instructional Days	Knowledge and Skills	Standards (Bold = focus standard)
Module 7: Exploring Measurement with Multiplication and Data	A: Measurement Conversion Tables B: Problem Solving with Measurement C: Investigation of Measurements Expressed as Mixed Numbers D: Data Analysis End-of-Module Assessment Task Assessments: 1 Lessons days: 15 Assessment days: 2 Total instructional days: 17	Students explore measurement (including metric units and customary units) and data, apply multiplication to convert measurement units, and problem solve with measurement. Students will: - Convert larger units of length, weight, mass, liquid volume, capacity, and time to smaller units of length, weight, mass, liquid volume, capacity, and time, or vice versa. - Add and subtract mixed measurement units. - Convert larger mixed measurement units with fractional parts to smaller units. - Use the Read–Draw–Write process to solve word problems, including multi-step measurement word problems. - Use a measurement data set to create frequency tables and dot plots and interpret the data. - Create a stem-and-leaf plot and interpret the data. - Use data and graphical representations to solve problems.	TEKS MPS 4.1D 4.1E 4.1F 4.1G TEKS 4.4H 4.5A 4.5B 4.8A 4.8B 4.8C 4.9A 4.9B 4.4C 4.4D 4.4E 4.4F ELPS 1.A 2.C 2.D 2.E 2.F 3.E 3.F 3.H 3.J 4.C 5.G
	Total Instructional Days: 165		