

Common Core Standards Plus – Mathematics – Grade 4 with Common Core ELD Standard Alignment

Domain	Lesson	Focus	Standard(s)	ELD Standards
Number and Operations in Base Ten (Number and Operations in Base Ten Standards 4.NBT.1 – 4.NBT.6)	1	Identify Place Value	4.NBT.1: Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.10: Composing/writing literary and informational texts.
	2	Identify Place Value up to 1,000,000		
	3	Understand Place Value Patterns		
	4	Understand Place Value Patterns		
	E1	Evaluation – Place Value		
	5	Word Form of Numbers	4.NBT.2: Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	6	Expanded Form		
	7	Standard Form		
	8	Whole Number Forms		
	E2	Evaluation – Forms of Numbers		
	9	Compare Numbers	4.NBT.2	ELD.PI.4.1: Exchanging information/ideas via oral communication and conversations. ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	10	Compare Numbers		
	11	Rounding Numbers	4.NBT.3: Use place value understanding to round multi-digit whole numbers to any place.	ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading.
	12	Rounding Numbers		
	E3	Evaluation – Comparing and Rounding Whole Numbers	4.NBT.2, 4.NBT.3	ELD.PI.4.10: Composing/writing literary and informational texts.
	P1	Performance Lesson #1 – Understanding Numbers (4.NBT.1, 4.NBT.2, 4.NBT.3)		
	13	Add Multi-digit Whole Numbers	4.NBT.4: Fluently add and subtract multi-digit whole numbers using the standard algorithm.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	14	Add Multi-digit Whole Numbers		
	15	Subtract Multi-digit Whole Numbers		
	16	Subtract Multi-digit Whole Numbers		
	E4	Evaluation – Add and Subtract Multi-digit Whole Numbers		
	17	Multiplication of Whole Numbers	4.NBT.5: Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	18	Multiplication of Whole Numbers		
	19	Multiplication of Whole Numbers		
	20	Multiplication of Whole Numbers		
	E5	Evaluation – Multiply Whole Numbers		
	21	Dividing Whole Numbers	4.NBT.6: Find whole-number quotients and remainders with up to 4-digit dividends and 1-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication & division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	22	Dividing Whole Numbers		
	23	Dividing Whole Numbers		
	24	Dividing Whole Numbers		
	E6	Evaluation – Dividing Whole Numbers		
	25	Dividing Whole Numbers	4.NBT.6	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
26	Dividing Whole Numbers			
27	Dividing Whole Numbers			
28	Dividing Whole Numbers			
E7	Evaluation – Dividing Whole Numbers			
P2	Performance Lesson #2 – Working with Operations (4.NBT.4, 4.NBT.5, 4.NBT.6)			

Common Core Standards Plus – Mathematics – Grade 4 with Common Core ELD Standard Alignment

Domain	Lesson	Focus	Standard(s)	ELD Standards
Operations and Algebraic Thinking (Operations & Algebraic Thinking Standards 4.OA.1 – 4.OA.5)	1	Commutative Property of Multiplication	4.OA.2: See Week 2 .	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.10: Composing/writing literary and informational texts.
	2	Represent Verbal Statements as Equations	4.OA.1: Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.	
	3	Represent Verbal Statements as Equations		
	4	Represent Verbal Statements as Equations		
	E1	Evaluation – Multiplicative Comparison		
	5	Multiplicative Comparison Problems	4.OA.2 Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading.
	6	Multiplicative Comparison Problems		
	7	Multiplicative Comparison Problems		
	8	Distinguish Multiplicative & Additive Comparisons		
	E2	Evaluation – Multiplicative Comparison		
	9	Multiplicative Comparison Problems	4.OA.2	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	10	Multiplicative Comparison Problems		
	11	Multistep Word Problems	4.OA.3	ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	12	Multistep Word Problems		
	E3	Evaluation – Word Problems	4.OA.2, 4.OA.3	
	13	Multistep Addition & Subtraction Word Problems	4.OA.3: Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	14	Multistep Multiplication Word Problems		
	15	Multistep Word Problems		
	16	Multistep Word Problems		
	E4	Evaluation – Multistep Word Problems		
	17	Division Word Problems with Remainders	4.OA.3	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	18	Division Word Problems with Remainders		
	19	Division Word Problems with Remainders		
	20	Division Word Problems with Remainders		
	E5	Evaluation – Solving Division Word Problems with Remainders		
	21	Multiples of Whole Numbers	4.OA.4: Find all factor pairs for a whole number in the range of 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	22	Finding Factor Pairs for Whole Numbers		
	23	Finding Factor Pairs for Whole Numbers		
	24	Recognize Prime and Composite Numbers		
	E6	Evaluation – Multiples and Factors		
	P3	Performance Lesson #3 – Understanding Operations (4.OA.1, 4.OA.2, 4.OA.3, 4.OA.4)		

Common Core Standards Plus – Mathematics – Grade 4 with Common Core ELD Standard Alignment

Domain	Lesson	Focus	Standard(s)	ELD Standards	
Operations and Algebraic Thinking (4.OA.1 – 4.OA.5)	25	Generating Arithmetic Patterns	4.OA.5: Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.10: Composing/writing literary and informational texts.	
	26	Identifying the Rule for Arithmetic Patterns			
	27	Generate Geometric Patterns			
	28	Identifying the Rule for Geometric Patterns			
	E7	Evaluation – Pattern Rules			
	29	Features of Arithmetic Patterns	4.OA.5	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.10: Composing/writing literary and informational texts.	
	30	Features of Geometric Patterns			
	31	Generate Growing Shape Patterns			
	32	Rule for Growing Shape Patterns			
	E8	Evaluation – Feature of Patterns			
P4	Performance Lesson #4 – Generate and Analyze Patterns (4.OA.5)				
Measurement and Data (Measurement and Data Standards 4.MD.1 – 4.MD.7)	1	Relative Size of Measurement Units	4.MD.1: Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.	
	2	Customary Measurement Equivalents			
	3	Comparing Customary Measurements			
	4	Relative Size of Measurement Units			
	E1	Evaluation – Customary Measurement Equivalents			
	5	Measurement Conversion	4.MD.1	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.	
	6	Measurement Conversion			
	7	Metric Measurement Equivalents			
	8	Comparing Metric Measurements			
	E2	Evaluation – Metric Measurement Equivalents			
	9	Word Problems with Measurement Units	4.MD.2: Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	ELD.PI.4.1: Exchanging information/ideas via oral communication and conversations. ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.	
	10	Word Problems with Measurement Units			
	11	Word Problems with Measurement Units			
	12	Word Problems with Measurement Units			
	E3	Evaluation – Word Problems with Measurement Units			
	P5	Performance Lesson #5 – Conversion Factor (4.MD.1, 4.MD.2)			
	13	Finding Perimeter of a Rectangle	4.MD.3: Apply the area and perimeter formulas for rectangles in real world and mathematical problems.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.	
	14	Finding Area of a Rectangle			
15	Perimeter/Area in Real World Problems				
16	Perimeter/Area in Real World Problems				
E4	Evaluation – Perimeter and Area of a Rectangular Figure				
P6	Performance Lesson #6 – Area and Perimeter (4.MD.3)				

Common Core Standards Plus – Mathematics – Grade 4 with Common Core ELD Standard Alignment

Domain	Lesson	Focus	Standard(s)	ELD Standards
Measurement and Data (Measurement and Data Standards 4.MD.1 – 4.MD.7)	17	Create a Line Plot	4.MD.4: Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Solve problems involving addition and subtraction of fractions by using information presented in line plots.	ELD.PI.4.1: Exchanging information/ideas via oral communication and conversations. ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	18	Reading a Line Plot		
	19	Solve Problems Using a Line Plot		
	20	Solve Problems Using a Line Plot		
	E5	Evaluation – Line Plots		
	P7	Performance Lesson #7 – Plotting Data (4.MD.4)		
	21	Concepts of Angles	4.MD.5: Recognize angles as geometric shapes formed wherever 2 rays share a common endpoint; understand concepts of angle measurement.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.10: Composing/writing literary and informational texts.
	22	Using a Protractor to Measure Angles	4.MD.6: Measure angles in whole–number degrees using a protractor. Sketch angles of specified measure.	
	23	Using a Protractor to Measure Angles		
	24	Using a Protractor to Sketch Angles		
	E6	Evaluation – Measurement of Angles	4.MD.5, 4.MD.6	
	25	Composing and Decomposing Angles	4.MD.7: Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	26	Finding Unknown Angles		
	27	Finding Unknown Angles		
28	Angles in Real World Problems			
E7	Evaluation – Angles			
P8	Performance Lesson #8 – All About Angles (4.MD.5, 4.MD.6, 4.MD.7)			
Geometry (Geometry Standards 4.G.1 – 4.G.3)	1	Points, Lines, and Line Segments	4.G.1: Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	2	Draw; Distinguish Between Rays & Angles		
	3	Draw and Distinguish Between Parallel and Perpendicular Lines		
	4	Identify Angles, Parallel, and Perpendicular Lines in Two-Dimensional Figures		
	E1	Evaluation – Identify Geometric Objects		
	5	Classify Two-Dimensional Figures Based on Their Sides	4.G.2: 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. Recognize right triangles as a category, and identify right triangles.	ELD.PI.4.1: Exchanging information/ideas via oral communication and conversations. ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	6	Classify Two-Dimensional Figures Based on Angle Measurement		
	7	Classify Special Triangles		
	8	Classifying Quadrilaterals		
	E2	Evaluation – 2–Dimensional Figures		
	P9	Performance Lesson #9 – Lines, Angles, Figures (4.G.1, 4.G.2)		
9	Line of Symmetry	4.G.3: Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.10: Composing/writing literary and informational texts.	
10	Line of Symmetry			
11	Line of Symmetry			
12	Line of Symmetry			
E3	Evaluation – Lines of Symmetry			
P10	Performance Lesson #10 – Symmetry (4.G.3)			

Common Core Standards Plus – Mathematics – Grade 4 with Common Core ELD Standard Alignment

Domain	Lesson	Focus	Standard(s)	ELD Standards
Number and Operations – Fractions (Number and Operations – Fractions Standards 4.NF.1–4.NF.7)	1	Equivalent Fractions	4.NF.1: Explain why a fraction a/b is equivalent to a fraction $(n \times a) / (n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading.
	2	Equivalent Fractions		
	3	Comparing Fractions		
	4	Comparing Fractions		
	E1	Evaluation – Equivalent Fractions and Comparing Fractions		
	5	Comparing Fractions	4.NF.2: Compare two fractions with different numerators and different denominators. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	6	Comparing Fractions		
	7	Equivalent Fractions		
	8	Equivalent Fractions		
	E2	Evaluation – Equivalent Fractions and Comparing Fractions		
	9	Add and Subtract Like Fractions	4.NF.3a: Understand addition and subtraction of fractions as joining and separating parts referring to the same whole.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	10	Decomposing and Composing Fractions	4.NF.3b: Decompose a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation. Justify decompositions, e.g., by using a visual fraction model.	
	11	Decomposing Fractions		
	12	Decomposing Mixed Numbers		
	E3	Evaluation – Composing and Decomposing Fractions	4.NF.3a, 4.NF.3b	
	P11	Performance Lesson #11 – All About Fractions (4.NF.1, 4.NF.2, 4.NF.3, 4.NF.3a, 4.NF.3b)		
	13	Adding Mixed Numbers	4.NF.3c: Add and subtract mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction, and/or by using properties of operations and the relationship between addition and subtraction.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	14	Adding Mixed Numbers		
	15	Subtracting Mixed Numbers		
	16	Subtracting Mixed Numbers		
E4	Evaluation – Add and Subtract Mixed Numbers			
17	Add Fractions to Solve Word Problems	4.NF.3d: Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.	
18	Subtract Fractions to Solve Word Problems			
19	Add/Subtract Fractions to Solve Word Problems			
20	Add/Subtract Fractions to Solve Word Problems			
E5	Evaluation – Word Problems - Adding/ Subtracting Fractions			
P12	Performance Lesson #12 – Adding and Subtracting Fractions (4.NF.3c, 4.NF.3d)			

Common Core Standards Plus – Mathematics – Grade 4 with Common Core ELD Standard Alignment

Domain	Lesson	Focus	Standard(s)	ELD Standards
Number and Operations – Fractions (Number and Operations – Fractions Standards 4.NF.1–4.NF.7)	21	Multiply Fractions by Whole Numbers	4.NF.4a: Apply and extend previous understandings of multiplication to multiply a fraction by a whole number. Understand a fraction a/b as a multiple of $1/b$.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	22	Multiplying Fractions by Whole Numbers		
	23	Multiplying Fractions by Whole Numbers	4.NF.4b: Apply and extend previous understandings of multiplication to multiply a fraction by a whole number. Understand a fraction a/b as a multiple of $1/b$, and use this understanding to multiply a fraction by a whole number.	
	24	Multiplying Fractions by Whole Numbers		
	E6	Evaluation – Multiplying Fractions by Whole Numbers	4.NF.4a, 4.NF.4b	
	25	Word Problems – Multiplying Fractions	4.NF.4c: Solve word problems involving multiplication of a fraction by a whole number.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	26	Word Problems – Multiplying Fractions		
	27	Operations in Fraction Word Problems	4.NF.4c, 4.NF.3d: Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators.	
	28	Operations in Fraction Word Problems		
	E7	Evaluation – Operations in Fraction Word Problems	4.NF.3c, 4.NF.4d	
	P13	Performance Lesson #13 – Multiplying Fractions		
	29	Converting Fractions - 10ths to 100ths	4.NF.5: Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.	ELD.PI.4.5: Listening actively and asking/answering questions about what was heard.
	30	Add Fractions		
	31	Convert Fractions to Decimals	4.NF.6: Use decimal notation for fractions with denominators 10 or 100.	
	32	Decimals on a Number Line		
	E8	Evaluation – Converting Fractions	4.NF.5, 4.NF.6	
	33	Compare Decimals	4.NF.7: Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.	ELD.PI.4.1: Exchanging information/ideas via oral communication and conversations. ELD.PI.4.5: Listening actively and asking/answering questions about what was heard. ELD.PI.4.6: Reading closely and explaining interpretations/ideas from reading. ELD.PI.4.10: Composing/writing literary and informational texts.
	34	Compare Decimals		
	35	Compare Decimals		
	36	Compare Decimals		
E9	Evaluation – Compare Decimals			
P14	Performance Lesson #14 – Fractions and Decimals (4.NF.5, 4.NF.6, 4.NF.7)			