standards PLUS

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EL·Support

GRADE 5

MATH INDEX

Standards Plus – Mathematics – Grade 5 with ELD Standard Alignment

Domain	Lesson	Focus	Standard(s)	ELD Standards
Number and Operations in Base Ten / Number and Operations in Base Ten Standards 5.NBT.1-5.NBT.7	**1**	Place Value Patterns	5.NBT.1: Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and 1/10 of what it represents in the place to its left.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard.
	2	Place Value Patterns		
	3	Place Value Patterns		
	4	Place Value Patterns		
	E1	Evaluation - Place Value Patterns		
	5	Powers of Ten	5.NBT.2: Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	6	Multiply by Powers of Ten		
	7	Divide by Powers of Ten		
	8	Multiply & Divide by Powers of Ten		
	E2	Evaluation - Powers of Ten		
	P1	**Performance Lesson #1** *Power of Ten* **(5.NBT.1, 5.NBT.2)**		
	9	Word Form of Decimals	5.NBT.3: Read, write, and compare decimals to thousandths. 5.NBT.3a: Read and write decimals to thousandths using base-ten numerals, number names, and expanded form, e.g., 347.392 = 3 × 100 + 4 × 10 + 7 × 1 + 3 × (1/10) + 9 × (1/100) + 2 × (1/1000).	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	10	Expanded Form of Decimals		
	11	Standard Form of Decimals		
	12	Decimal Forms		
	E3	Evaluation - Decimal Forms		
	13	Compare Decimals	5.NBT.3b: Compare two decimals to thousandths based on meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	14	Compare Decimals		
	15	Round Decimals	5.NBT.4: Use place value understanding to round decimals to any place.	
	16	Round Decimals		
	E4	Evaluation – Compare, Round Decimals	5.NBT.3b, 5.NBT.4	
	P2	**Performance Lesson #2** *Working with Decimals* **(5.NBT.3, 5.NBT.3a-b, 5.NBT.4)**		
	17	Multiply Whole Numbers	5.NBT.5: Fluently multiply multi-digit whole numbers using the standard algorithm.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard.
	18	Multiply Whole Numbers		
	19	Multiply Whole Numbers		
	20	Multiply Whole Numbers		
	E5	Evaluation - Multiply Whole Numbers		
	21	Divide Whole Numbers	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.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	22	Divide Whole Numbers		
	23	Divide Whole Numbers		
	24	Divide Whole Numbers		
	E6	Evaluation-Divide Whole Numbers		
	P3	**Performance Lesson #3** *Multiplication and Division* **(5.NBT.5, 5.NBT.6)**		

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Domain	Lesson	Focus	Standard(s)	ELD Standards
Number and Operations in Base Ten — Number & Operations in Base Ten Standards 5.NBT.1-5.NBT.7	25	Add Decimals	5.NBT.7: Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard.
	26	Add Decimals		
	27	Subtract Decimals		
	28	Subtract Decimals		
	E7	Evaluation - Add and Subtract Decimals		
	29	Multiply Decimals	5.NBT.7	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard.
	30	Multiply Decimals		
	31	Multiply Decimals		
	32	Multiply Decimals		
	E8	Evaluation - Multiply Decimals		
	33	Multiply Decimals	5.NBT.7	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard.
	34	Multiply Decimals		
	35	Divide Whole Numbers by 1/10th		
	36	Divide Whole Numbers by 1/100th		
	E9	Evaluation-Multiply and Divide Decimals		
	37	Divide a Decimal by a Whole Number	5.NBT.7	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	38	Divide a Decimal by a Whole Number		
	39	Divide a Whole Number by a Decimal		
	40	Divide Decimals to Hundredths		
	E10	Evaluation - Division with Decimals		
	P4	**Performance Lesson #4** *Operations with Decimals **(5.NBT.7)***		
Number and Operations Fractions — Number & Operations – Fractions Standards 5.NF.1-5.NF.7c	1	Add Fractions	5.NF.1: Add & subtract fractions with unlike denominators (including mixed numbers) by replacing given fractions with equivalent fractions to produce an equivalent sum or difference of fractions with like denominators.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading.
	2	Add Fractions in Context	5.NF.2: see below	
	3	Add Mixed Numbers	5.NF.1	
	4	Add Mixed Numbers in Context	5.NF.2	
	E1	Evaluation – Add Fractions; Mixed Numbers	5.NF.1, 5.NF.2	
	5	Subtract Fractions	5.NF.1	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading.
	6	Subtract Fractions in Context	5.NF.2	
	7	Subtract Mixed Numbers	5.NF.1	
	8	Subtract Mixed Numbers in Context	5.NF.2	
	E2	Evaluation – Subtract Fractions; Mixed Numbers	5.NF.1, 5.NF.2	

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Domain	Lesson	Focus	Standard(s)	ELD Standards
Number and Operations Fractions — Number & Operations – Fractions Standards 5.NF.1-5.NF.7c	9	Add/Estimate Fraction Problems	5.NF.2: Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, e.g., by using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally and assess the reasonableness of answers.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	10	Add/Estimate Fraction Problems		
	11	Subtract/Estimate Fraction Problems		
	12	Subtract/Estimate Fraction Problems		
	E3	Evaluation – Solving Fraction Problems		
	13	Interpret Fractions as Division	5.NF.3: Interpret a fraction as division of the numerator by the denominator ($a/b = a \div b$). Solve word problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	14	Interpret Fractions as Division		
	15	Solve Problems with Fractions		
	16	Solve Problems with Mixed Numbers		
	E4	Evaluation – Solving Fraction Problems		
	P5	**Performance Lesson #5** *Add & Subtract Fractions and Mixed Numbers (5.NF.1, 5.NF.2, 5.NF.3)*		
	17	Multiply Fractions	5.NF.4: Apply and extend previous understandings of multiplication to multiply a fraction or whole number by a fraction. 5.NF.4a: Interpret the product (a/b) × q as a parts of a partition of q into b equal parts; equivalently, as the result of a sequence of operations $a \times q \div b$.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	18	Multiply Fractions		
	19	Multiply Fractions		
	20	Multiply Fractions		
	E5	Evaluation - Multiply Fractions		
	21	Multiply Fractions	5.NF.4, 5.NF.4b: 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.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	22	Multiply Fractions to Find Area		
	23	Multiply Fractions to Find Area		
	24	Multiply Fractions to Find Area		
	E6	Evaluation-Multiply Fractions to Find Area		
	25	Interpret Multiplication as Scaling	5.NF.5: Interpret multiplication as scaling (resizing), by: 5.NF.5a: Comparing the size of a product to the size of one factor on the basis of the size of the other factor, without performing the indicated multiplication.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	26	Interpret Multiplication as Scaling		
	27	Interpret Multiplication as Scaling	5.NF.5, 5.NF.5b: Explain why multiplying a given number by a fraction greater than 1 results in a product greater than the given number; explain why multiplying a given number by a fraction less than 1 results in a product smaller than the given number; relate the principle of fraction equivalence $a/b = (n \times a)/(n \times b)$ to the effect of multiplying $a/b \times 1$.	
	28	Interpret Multiplication as Scaling		
	E7	Evaluation-Interpret Multiplication as Scaling	5.NF.5, 5.NF.5a, 5.NF.5b	

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Domain	Lesson	Focus	Standard(s)	ELD Standards
Number and Operations Fractions Number & Operations – Fractions Standards 5.NF.1-5.NF.7c	**29**	Fraction Multiplication Problems	5.NF.6: Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	30	Fraction Multiplication Problems		
	31	Fraction Multiplication Problems		
	32	Fraction Multiplication Problems		
	E8	Evaluation-Fraction Multiplication Problems		
	P6	**Performance Lesson #6** *Multiplying Fractions (5.NF.4, 5.NF.4a, 5.NF.5, 5.NF.5b, 5.NF.6)*		
	33	Divide a Fraction by a Whole Number	5.NF.7: Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions. 5.NF.7a: Interpret division of a unit fraction by a non-zero whole number, and compute such quotients.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	34	Divide a Fraction by a Whole Number		
	35	Divide a Fraction by a Whole Number		
	36	Divide a Fraction by a Whole Number		
	E9	Evaluation-Divide a Fraction by a Whole Number		
	37	Divide a Whole Number by a Fraction	5.NF.7b: Interpret division of a whole number by a unit fraction, and compute such quotients.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	38	Divide a Whole Number by a Fraction		
	39	Divide a Whole Number by a Fraction		
	40	Divide a Whole Number by a Fraction		
	E10	Evaluation-Divide a Whole Number by a Fraction		
	41	Solve Real World Fraction Problems	5.NF.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.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	42	Solve Real World Fraction Problems		
	43	Solve Real World Fraction Problems		
	44	Solve Real World Fraction Problems		
	E11	Evaluation-Real World Fraction Problems		
	P7	**Performance Lesson#7** *Real World Fraction Problems (5.NF.7, 5.NF.7a-5.NF.7c)*		
Measurement & Data Measure. & Data Stand. 5.MD.1-5.MD.5c	**1**	Converting Metric Units	5.MD.1: Convert among different-sized standard measurement units within a given measurement system (e.g., convert 5 cm to 0.05 m), and use these conversions in solving multi-step, real world problems.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	2	Converting Metric Units		
	3	Converting Customary Units		
	4	Converting Customary Units		
	E1	Evaluation - Converting Measures within the Same System		

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Measurement and Data — Measurement and Data Standards 5.MD.1-5.MD.5c	5	Fractional Data Sets	5.MD.2: Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8). Use operations on fractions for this grade to solve problems involving information presented in line plots.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	6	Fractional Data Sets		
	7	Fractional Data Sets		
	8	Fractional Data Sets		
	E2	Evaluation - Solving Problems with Fractional Data Sets		
	P8	**Performance Lesson #8** *Measurement Units & Line Plots **(5.MD.1, 5.MD.2)***		
	9	Measure with Cubic Units	5.MD.3: Recognize volume as an attribute of solid figures and understand concepts of volume measurement.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading.
	10	Measure with Cubic Units		
	11	Measure with Cubic Units	5.MD.4: Measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised units.	
	12	Measure with Cubic Units		
	E3	Evaluation - Measure with Cubic Units	5.MD.3, 5.MD.4	
	13	Find Volume by Multiplying Edge Lengths	5.MD.5: Relate volume to the operations of multiplication and addition and solve real world and mathematical problems involving volume. 5.MD.5a: 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.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	14	Find Volume by Multiplying Edge Lengths		
	15	Find Volume by Multiplying Edge Lengths		
	16	Find Volume by Multiplying Edge Lengths		
	E4	Evaluation-Find Volume by Multiplying Edge Lengths		
	17	Apply the Formulas for Volume	5.MD.5b: 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.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	18	Apply the Formulas for Volume		
	19	Apply Volume Formulas to Solve Problems		
	20	Apply Volume Formulas to Solve Problems		
	E5	Evaluation-Apply Volume Formulas to Solve Problems		
	21	Volume of Non-overlapping Right Rectangular Prisms	5.MD.5c: Recognize volume as additive. Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the non-overlapping parts, applying this technique to solve real world problems.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	22	Volume of Non-overlapping Right Rectangular Prisms		
	23	Solving Volume Problems by Decomposing Prisms		
	24	Solving Volume Problems by Decomposing Prisms		
	E6	Evaluation - Solving Volume Problems		
	P9	**Performance Lesson #9** *All About Volume **(5.MD.3, 5.MD.4, 5.MD.5, 5.MD.5a-5.MD.5c)***		

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Operations and Algebraic Thinking Operations and Algebraic Thinking Standards 5.OA.1-5.OA.3	**1**	Evaluating Expressions	5.OA.1: Use parentheses, brackets, or braces in numerical expressions, and evaluate expressions with these symbols.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard.
	2	Evaluating Expressions		
	3	Evaluating Expressions		
	4	Evaluating Expressions		
	E1	Evaluation-Evaluating Expressions		
	5	Writing Numerical Expressions	5.OA.2: Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading.
	6	Writing Numerical Expressions		
	7	Writing Numerical Expressions		
	8	Writing Numerical Expressions		
	E2	Evaluation-Writing Numerical Expressions		
	9	Interpret Numerical Expressions	5.OA.2: Write simple expressions that record calculations with numbers, and interpret numerical expressions without evaluating them.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	10	Interpret Numerical Expressions		
	11	Interpret Numerical Expressions		
	12	Interpret Numerical Expressions		
	E3	Evaluation-Interpret Numerical Expressions		
	P10	**Performance Lesson #10** *Expressions* **(5.OA.1, 5.OA.2)**		
	13	Generating Arithmetic Patterns	5.OA.3: Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	14	Pattern Relationships		
	15	Pattern Relationships		
	16	Pattern Relationships		
	E4	Evaluation-Pattern Relationships		
	17	Pattern Relationships	5.OA.3: Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns, and graph the ordered pairs on a coordinate plane.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	18	Pattern Relationships		
	19	Graphing Patterns		
	20	Graphing Patterns		
	E5	Evaluation-Pattern Relationships		
	P11	**Performance Lesson #11** *Patterns* **(5.OA.3)**		

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Domain	Lesson	Focus	Standard(s)	ELD Standards
Geometry (Geometry Standards 5.G.1-5.G.4)	**1**	Plotting Points on a Coordinate Grid	5.G.1: Use a pair of perpendicular number lines, called axes, to define a coordinate system, with the intersection of the lines (the origin) arranged to coincide with the 0 on each line and a given point in the plane located by using an ordered pair of numbers, called its coordinates.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	2	Plotting Points on a Coordinate Grid	Understand that the first number indicates how far to travel from the origin in the direction of one axis, and the second number indicates how far to travel in the direction of the second axis, with the convention that the names of the two axes and the coordinates correspond.	
	3	Graphing and Interpreting Points	5.G.2: Represent real world and mathematical problems by graphing points in the first quadrant of the coordinate plane, and interpret coordinate values of points in the context of the situation.	
	4	Graphing and Interpreting Points		
	E1	Evaluation-Understanding and Interpreting Coordinate Systems	5.G.1, 5.G.2	
	P12	**Performance Lesson #12** *Graph It!* **(5.G.1, 5.G.2)**		
	5	Understanding Attributes of Triangles	5.G.3: Understand that attributes belonging to a category of two-dimensional figures also belong to all subcategories of that category.	**ELD.PI.5.5:** Listening actively and asking/ answering questions about what was heard. **ELD.PI.5.6:** Reading closely and explaining interpretations/ideas from reading. **ELD.PI.5.10:** Composing/writing literary and informational texts.
	6	Creating a Hierarchy of Triangles	5.G4: Classify two-dimensional figures in a hierarchy based on properties.	
	7	Understanding Attributes of Quadrilaterals	5.G.3	
	8	Creating a Hierarchy of Quadrilaterals	5.G.4	
	E2	Evaluation-Two Dimensional Shapes – Classifying and Hierarchy	5.G.3, 5.G.4	
	P13	**Performance Lesson #13** *Just Plane Hierarchy* **(5.G.3, 5.G.4)**		