bridges in mathematics

GRADE 5

Bridges & Number Corner Third Edition

CORRELATIONS

2021 Oregon Mathematics Standards

number corner

5 Mathematical Practice Standards

This list of citations is not exhaustive. We have provided citations to demonstrate students have many opportunities throughout the curriculum to engage in the practice standards.

Standard	Descriptor	Citations	
1	Make sense of problems and persevere in solving them.	**Bridges in Mathematics** Unit 1: M1 S2; M3 S2 Unit 2: M1 S2; M2 S6; M3 S1 Unit 3: M1 S2; M4 S2 Unit 4: M1 S1; M2 S1; M3 S7 Unit 5: M1 S3; M2 S1; M3 S4 Unit 6: M1 S1; M2 S4; M4 S1 Unit 7: M1 S2; M2 S1 Unit 8: M2 S4; M4 S2	**Number Corner** October: Solving Problems November: Solving Problems December: Solving Problems January: Solving Problems March: Number Strings April: Solving Problems May: Solving Problems
2	Reason abstractly and quantitatively.	**Bridges in Mathematics** Unit 1: M1 S1; M3 S3; M4 S4 Unit 2: M1 S4; M3 S5 Unit 3: M1 S1; M2 S4; M4 S1 Unit 4: M2 S4; M3 S7; M4 S1 Unit 5: M1 S2; M2 S1; M3 S4 Unit 6: M1 S5; M3 S1 Unit 7: M1 S5; M2 S2 Unit 8: M2 S1; M4 S1	**Number Corner** September: Calendar Grid October: Computational Fluency November: Computational Fluency December: Solving Problems January Solving Problems February: Calendar Collector March: Computational Fluency April: Computational Fluency May: Calendar Collector, Solving Problems
3	Construct viable arguments and critique the reasoning of others.	**Bridges in Mathematics** Unit 1: M1 S1; M2 S4 Unit 2: M2 S2; M3 S5 Unit 3: M2 S6; M3 S4; M4 S2 Unit 4: M2 S1; M3 S5 Unit 5: M3 S1 Unit 6: M1 S5; M2 S2; M3 S2 Unit 7: M1 S3; M2 S2 Unit 8: M3 S3; M4 S3	**Number Corner** September: Calendar Grid, Solving Problems October: Computational Fluency November: Calendar Grid

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This list of citations is not exhaustive. We have provided citations to demonstrate students have many opportunities throughout the curriculum to engage in the practice standards.			
4	Model with mathematics.	**Bridges in Mathematics** Unit 1: M4 S5 Unit 2: M3 S1; M3 S3 Unit 3: M1 S4; M3 S4 Unit 4: M2 S2 Unit 5: M2 S5; M4 S1 Unit 6: M1 S2; M1 S3; M2 S1 Unit 7: M2 S3; M3 S4 Unit 8: M3 S1	**Number Corner** September: Solving Problems December: Calendar Collector March: Calendar Collector April: Calendar Collector, Solving Problems
5	Use appropriate tools strategically.	**Bridges in Mathematics** Unit 2: M1 S1; M2 S1; M3 S3 Unit 3: M4 S1 Unit 4: M2 S3 Unit 5: M2 S2; M4 S4 Unit 6: M1 S2; M2 S3 Unit 7: M2 S3; M4 S2 Unit 8: M1 S1; M4 S2	**Number Corner** October: Solving Problems, Number Strings November: Number Strings January: Number Strings February: Calendar Grid, Number Strings March: Number Strings April: Number Strings May: Calendar Grid
6	Attend to precision.	**Bridges in Mathematics** Unit 1: M1 S3; M3 S5 Unit 2: M2 S5; M4 S4 Unit 3: M1 S1; M2 S1; M3 S1 Unit 4: M1 S3; M3 S1 Unit 6: M1 S1; M3 S3 Unit 7: M2 S1 Unit 8: M1 S1 M4 S2	**Number Corner** September: Computational Fluency October: Computational Fluency November: Computational Fluency December: Calendar Collector January: Calendar Collector February: Computational Fluency, Solving Problems March: Calendar Collector April: Calendar Collector, Computational Fluency May: Computational Fluency

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This list of citations is not exhaustive. We have provided citations to demonstrate students have many opportunities throughout the curriculum to engage in the practice standards.			
7	Look for and make use of structure.	**Bridges in Mathematics** Unit 1: M1 S5; M2 S1 Unit 2: M1 S2; M3 S2; M4 S1 Unit 3: M1 S1; M2 S1; M4 S3 Unit 4: M3 S2 Unit 5: M1 S5; M4 S1 Unit 6: M1 S4; M2 S3 Unit 7: M3 S1; M4 S1	**Number Corner** September: Calendar Collector October: Calendar Collector November: Calendar Grid, Calendar Collector January: Calendar Grid, Number Strings February: Calendar Grid, Number Strings March: Calendar Grid, Number Strings April: Calendar Grid, Number Strings May: Calendar Grid, Number Strings
8	Look for and express regularity in repeated reasoning.	**Bridges in Mathematics** Unit 1: M1 S2; M1 S4; M1 S5; M2 S1 Unit 2: M1 S1 Unit 3: M1 S3; M2 S6; M4 S3 Unit 4: M3 S2 Unit 5: M1 S4; M2 S4 Unit 6: M1 S4 Unit 7 M3 S1	**Number Corner** September: Calendar Collector, Computational Fluency October: Number Strings November: Calendar Collector December: Calendar Grid January: Calendar Grid, Computational Fluency March: Calendar Grid April: Calendar Grid

5 OA — Algebraic Reasoning: Operations

Standard	Descriptor	Citations	
5.OA.A Write and interpret numerical expressions.			
5.OA.A.1	Write and evaluate numerical expressions that include parentheses.	**Bridges in Mathematics** Unit 1: M1 S5; M2 S1; M2 S2; M2 S4; M3 S1; M3 S3; M3 S4 Unit 4: M3 S1 Unit 6: M1 S2; M1 S3 Unit 7: M1 S5 Unit 8: M1 S1	**Number Corner** September: Calendar Collector October: Computational Fluency November: Computational Fluency
5.OA.A.2	Write expressions that record calculations with numbers and interpret numerical expressions without evaluating them.	**Bridges in Mathematics** Unit 1: M1 S4; M1 S5; M3 S3; M2 S1 Unit 8: M1 S1	**Number Corner** September: Calendar Collector November: Computational Fluency March: Calendar Grid May: Solving Problems
5.OA.B Analyze patterns and relationships.			
5.OA.B.3	Generate two numerical patterns using two given rules. Identify and analyze relationships between corresponding terms. Form ordered pairs consisting of corresponding terms from the two patterns and graph them on a coordinate plane.	**Bridges in Mathematics** Unit 6: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M1 S6; M1 S7	**Number Corner** October: Solving Problems January: Calendar Grid

5 NBT — Numeric Reasoning: Base Ten Arithmetic

Standard	Descriptor	Citations	
5.NBT.A Understand the place value system.			
5.NBT.A.1	Recognize that in a multidigit 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.	**Bridges in Mathematics** Unit 3: M1 S3; M1 S4; M1 S5; M2 S1	**Number Corner** November: Calendar Collector February: Solving Problems March: Calendar Grid
5.NBT.A.2	Use whole number exponents to denote powers of 10 and explain the patterns in placement of digits that occur when multiplying and/or dividing whole numbers and decimals by powers of 10.	**Bridges in Mathematics** Unit 3: M1 S3; M1 S4; M3 S1 Unit 6: M1 S2 Unit 7: M3 S1; M3 S2; M3 S3	**Number Corner** November: Calendar Collector February: Calendar Collector, Solving Problems
5.NBT.A.3	Read, write, and compare decimals to thousandths.	**Bridges in Mathematics** Unit 3: M1 S5; M2 S1; M2 S2; M2 S5; M2 S6; M2 S7 Unit 7: M3 S1; M3 S2; M3 S3	**Number Corner** March: Computational Fluency
5.NBT.A.4	Use place value understanding to round decimals to any place.	**Bridges in Mathematics** Unit 3: M2 S3	

Standard	Descriptor	Citations	
5.NBT.B Perform operations with multidigit whole numbers and with decimals to hundredths.			
5.NBT.B.5	Fluently multiply multidigit whole numbers using accurate, efficient, and flexible strategies and algorithms based on place value and properties of operations.	**Bridges in Mathematics** Unit 1: M3 S1; M3 S2; M3 S4; M3 S5; M4 S1 Unit 4: M1 S1; M1 S2; M1 S3; M2 S4; M3 S2; M3 S3; M3 S4; M3 S5; M3 S7	**Number Corner** February: Computational Fluency March: Solving Problems
5.NBT.B.6	Use a variety of representations and strategies to find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors.	**Bridges in Mathematics** Unit 1: M3 S1; M3 S2; M3 S4; M3 S5; M4 S1; M4 S2; M4 S3; M4 S4; M4 S5 Unit 3: M4 S1; M4 S2; M4 S3 Unit 4: M1 S1; M4 S1; M4 S2; M4 S4 Unit 7: M1 S1; M1 S4; M2 S3; M2 S4	**Number Corner** February: Computational Fluency March: Solving Problems
5.NBT.B.7	Use a variety of representations and strategies to add, subtract, multiply, and divide decimals to hundredths. Relate the strategy to a written method and explain the reasoning used.	**Bridges in Mathematics** Unit 2: M3 S1 Unit 3: M1 S1; M2 S1; M2 S3; M2 S4; M3 S2; M3 S3; M3 S4 Unit 4: M1 S3; M1 S4; M2 S2; M2 S3; M2 S4 Unit 7: M3 S4; M4 S1; M4 S2; M4 S3	**Number Corner** September: Calendar Grid, Number Strings October: Solving Problems December: Solving Problems, Number Strings January: Calendar Collector, Number Strings February: Computational Fluency March: Computational Fluency, Solving Problems April: Calendar Collector

5 NF — Numeric Reasoning: Fractions

Standard	Descriptor	Citations	
5.NF.A Use equivalent fractions as a strategy to add and subtract fractions.			
5.NF.A.1	Add and subtract fractions with unlike denominators, including common fractions larger than one and mixed numbers.	**Bridges in Mathematics** Unit 2: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M2 S1; M2 S3; M2 S6; M3 S2; M3 S4; M3 S5; M4 S1; M4 S2 Unit 3: M1 S2 Unit 5: M1 S2; M1 S4	**Number Corner** October: Computational Fluency, Number Strings November: Number Strings December: Computational Fluency January: Computational Fluency March: Calendar Collector, Number Strings April: Computational Fluency May: Computational Fluency
5.NF.A.2	Solve problems in authentic contexts involving addition and subtraction of fractions with unlike denominators, including common fractions larger than one and mixed numbers.	**Bridges in Mathematics** Unit 2: M2 S2; M2 S3; M2 S4; M3 S3; M3 S4; M4 S3	**Number Corner** December: Computational Fluency January: Calendar Collector March: Calendar Collector April: Solving Problems
5.NF.B Apply and extend previous understandings of multiplication and division.			
5.NF.B.3	Interpret a fraction as division of the numerator by the denominator (a/b = a ÷ b). Solve problems in authentic contexts involving division of whole numbers that result in answers that are common fractions or mixed numbers.	**Bridges in Mathematics** Unit 1: M4 S3 Unit 2: M2 S5; M3 S1 Unit 7: M1 S2; M1 S3; M2 S5; M2 S6	**Number Corner** March: Computational Fluency

Standard	Descriptor	Citations	
5.NF.B Apply and extend previous understandings of multiplication and division.			
5.NF.B.4	Apply and extend previous understanding and strategies of multiplication to multiply a fraction or whole number by a fraction. Multiply fractional side lengths to find areas of rectangles and represent fractional products as rectangular areas.	**Bridges in Mathematics** Unit 4: M2 S1; M3 S1; M3 S6 Unit 5: M1 S2; M1 S4; M1 S5; M2 S1; M2 S2; M2 S3; M2 S5; M3 S4 Unit 8: M3 S2	**Number Corner** November: Solving Problems January: Computational Fluency February: Calendar Grid April: Computational Fluency May: Computational Fluency
5.NF.B.5	Apply and extend previous understandings of multiplication and division to represent and calculate multiplication and division of fractions. Interpret multiplication as scaling (resizing) by comparing the size of products of two factors.	**Bridges in Mathematics** Unit 1: M2 S1 Unit 4: M1 S3 Unit 5: M1 S1; M1 S3; M1 S5; M2 S4; M3 S3 Unit 7: M1 S6; M2 S1; M2 S2; M2 S3	**Number Corner** February: Number Strings May: Computational Fluency, Number Strings
5.NF.B.6	Solve problems in authentic contexts involving multiplication of common fractions and mixed numbers.	**Bridges in Mathematics** Unit 2: M2 S4 Unit 5: M3 S1; M3 S2 Unit 6: M4 S1; M4 S2; M4 S3 Unit 8: M1 S1; M3 S3; M3 S4; M3 S5	**Number Corner** April: Calendar Collector, Number Strings
5.NF.B.7	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions, including solving problems in authentic contexts.	**Bridges in Mathematics** Unit 5: M4 S2; M4 S3; M4 S4; M4 S5 Unit 7: M1 S2; M1 S3; M2 S1; M2 S2 Unit 8: M3 S4	**Number Corner** April: Number Strings May: Number Strings

5 GM — Geometric Reasoning and Measurement

Standard	Descriptor	Citations	
5.GM.A Graph points on the coordinate plane to solve real-world and mathematical problems.			
5.GM.A.1	Graph and name coordinate points in the first quadrant using the standard (x, y) notation. Understand the coordinate points values represent the distance traveled along the horizontal x-axis and vertical y-axis.	**Bridges in Mathematics** Unit 6: M1 S1; M1 S2; M1 S3	**Number Corner** October: Calendar Collector November: Calendar Grid December: Calendar Collector May: Calendar Grid
5.GM.A.2	Represent authentic contexts and mathematical problems by graphing points in the first quadrant of the coordinate plane. Interpret the meaning of the coordinate values based on the context of a given situation.	**Bridges in Mathematics** Unit 6: M1 S3; M1 S4; M1 S5; M1 S6 Unit 8: M1 S2; M1 S3; M1 S4; M2 S1; M2 S2; M2 S4; M2 S6; M3 S1; M4 S1	
5.GM.B Classify two-dimensional figures into categories based on their properties.			
5.GM.B.3	Classify two-dimensional figures within a hierarchy based on their geometrical properties and explain the relationship across and within different categories of these figures.	**Bridges in Mathematics** Unit 6: M2 S1; M2 S2; M2 S3; M2 S4	**Number Corner** December: Calendar Grid

Standard	Descriptor	Citations	
5.GM.C Convert like measurement units within a given measurement system.			
5.GM.C.4	Convert between different-sized standard measurement units within a given measurement system. Use these conversions in solving multistep problems in authentic contexts.	**Bridges in Mathematics** Unit 3: M2 S7; M3 S1; M3 S2; M3 S3 Unit 4: M4 S3 Unit 6: M4 S3 Unit 8: M1 S1; M2 S3; M2 S5; M3 S3	**Number Corner** May: Calendar Collector
5.GM.D Geometric measurement: understand concepts of volume.			
5.GM.D.5	Recognize that volume is a measurable attribute of solid figures.	**Bridges in Mathematics** Unit 1: M1 S4; M1 S5; M2 S1; M2 S2 Unit 6: M3 S1; M3 S2	**Number Corner** October: Calendar Grid January: Solving Problems April: Calendar Grid
5.GM.D.6	Measure the volume of a rectangular prism by counting unit cubes using standard and nonstandard units.	**Bridges in Mathematics** Unit 1: M1 S5; M2 S2 Unit 6: M3 S1; M3 S2	**Number Corner** September: Calendar Collector October: Calendar Grid January: Solving Problems April: Calendar Grid
5.GM.D.7	Relate volume of rectangular prisms to the operations of multiplication and addition. Solve problems in authentic contexts involving volume using a variety of strategies.	**Bridges in Mathematics** Unit 1: M1 S5; M2 S1; M2 S2 Unit 6: M3 S1; M3 S2; M3 S3; M3 S4; M3 S5 Unit 8: M1 S5; M1 S6; M2 S2; M3 S3	**Number Corner** September: Calendar Collector October: Calendar Grid January: Solving Problems April: Calendar Grid

5 DR — Data Reasoning

Standard	Descriptor	Citations	
5.DR.A Pose investigative questions and collect/consider data.			
5.DR.A.1	Generate questions to investigate situations within the classroom, school or community. Determine strategies for collecting or considering data involving operations with fractions for this grade that can naturally answer questions by using information presented in line plots.	**Bridges in Mathematics** Unit 6: M4 S2; M4 S3 Unit 8: M1 S1; M1 S2; M1 S3; M1 S4; M1 S5; M2 S1; M2 S4; M2 S6; M3 S2; M4 S1	
5.DR.B Analyze, represent, and interpret data.			
5.DR.B.2	Analyze graphical representations and describe the distribution of the numerical data through line plots or categorical data through bar graphs. Interpret information presented to answer investigative questions.	**Bridges in Mathematics** Unit 6: M4 S2; M4 S3 Unit 8: M1 S2; M1 S3; M1 S4; M1 S5; M2 S2; M2 S4; M2 S6; M3 S1; M3 S2; M4 S1	**Number Corner** December: Calendar Collector March: Calendar Collector May: Calendar Collector