SOUTH CAROLINA DEPARTMENT OF EDUCATION

Resources for Addressing Gaps in the 2025 High-Quality Instructional Materials (K-5)

Office of Assessment and Standards

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Contents

Contents 2
Purpose 3
Kindergarten 4
First Grade 6
Second Grade 8
Third Grade 12
Fourth Grade 16
Fifth Grade 19
References 23

Purpose

The purpose of this document is to identify and list instructional resources that address gaps in the High-Quality Instructional Materials (HQIM) aligned to the 2025 South Carolina College- and Career-Ready (2025 SC CCR) Mathematics Standards. **These gaps represent standards or indicators that were either missing or not sufficiently addressed in at least one set of instructional materials.**

Gaps were identified through a comprehensive review process that included feedback from **South Carolina educators**, **HQIM reviewers**, **publishing companies**, and **South Carolina Department of Education (SCDE) Mathematics Education Associates**.

The gaps are organized by **grade level** and aligned to specific **indicators**. For each identified gap, this document provides instructional resources intended to supplement existing materials and support strong, standard-aligned mathematics instruction.

This document is designed to be a **practical tool for planning and instructional decision-making** and will be updated as additional feedback and resources become available.

Disclaimer:

The resources listed represent a curated collection of readily accessible references aligned to the identified standards, providing educators with instructional support and the flexibility to select the resources most appropriate for instruction.

Kindergarten

Indicator Number	Indicator	Resources
K.DPSR.1.2	Answer questions about data organized in a t-chart, object graph, or picture graph.	The Great Graph Contest Read Aloud with Mrs G What does the data tell us?-Unit C Illustrative Math|Kendall Hunt
K.MGSR.1.1	Identify a penny, nickel, dime, and quarter.	T4T Identifying Coins | Recent Activity | #GoOpenNC (Focus on identifying coins not on the value) How to tell coins apart-You Tube
K.MGSR.2.2	Describe relative positions of objects by appropriately using terms including below, above, beside, between, inside, outside, in front of, or behind.	Math and Movement: Positional Language | Let's Learn | PBS LearningMedia Positional Words-s2temsc
K.NR.2.2	Subitize a quantity of up to 10 objects in an organized arrangement without counting, explaining how one grouped the objects within the set to determine the total quantity.	Subitize Rock (soo-bi-tize) | Math Song for Kids | Jack Hartmann Subitize Rap (soo-bi-tize) | Open Answer | Math Song for Kids | Jack Hartmann Subitising | NRICH K.1 Math in Our World-Illustrative Math Subitizing-Learning Trajectories
K.NR.2.4	Given a number from 0 to 20, count out that many objects.	Recognizing numbers up to 20 - Prekinders and Kindergarteners Lesson Plan Connect Quantities and Numbers-Illustrative Mathematics | Kendall Hunt Draw teen numbers from abstract to pictorial-UnboundEd Look at a numeral and count out a group of objects to match-UnboundEd

Indicator Number	Indicator	Resources
K.PAFR.2.1	Describe, extend, and create (to the next term) simple repeating patterns in the form of AB, AAB, ABB, and ABC.	Exploring patterns Patterns for Kids | AB, ABB, and ABC Patterns - YouTube Egg Pattern Play | Knowitall.org Identifying patterns using objects-UnboundEd Identify and duplicate patterns using sounds and movement-UnboundEd Duplicate and extend patterns with movement and objects Pattern This | Knowitall.org

First Grade

Indicator Number	Indicator	Resources
1.DPSR.1.1	Sort pictures or objects into at least three categories (not to exceed 10 items in each category).	Classifying and Sorting Objects Activity Plan Sorting and Classifying Objects - Solvent Learning
1.DPSR.1.2	Create survey questions and collect data with up to three categories. Create charts and graphs with a single unit scale to display the data. Use the graph to draw conclusions. Limit to one-step add-to, take-from, and part-part-whole questions.	Graphing | Knowitall.org Graphing & Data Activities {Kindergarten & First Grade} Data Big Ideas - YouCubed Reading bar graphs: dog bones (video) | Khan Academy What is your favorite_____?- Illustrative Math|Kendall Hunt Data Interpretation-UnboundEd
1.MGSR.1.1	Order three objects by length from shortest to longest and longest to shortest using direct comparison.	Caterpillar Line Up (Ordering by Length) | Knowitall.org My Measurement Book | Knowitall.org
1.MGSR.1.4	Identify and write the values of a coin or a bill using a ¢ symbol for coin values or $ symbol for bills. Limit to penny, nickel, dime, quarter, one-dollar bill, five-dollar bill, and ten-dollar bill.	KidsECON Episode 2: Bank Lesson | Knowitall.org Learning about coins | Consumer Financial Protection Bureau
1.MGSR.1.5	Count a collection of like coins to determine the total value of the set. Limit to pennies, nickels, and dimes with values not to exceed a dollar.	Lesson Plan Grade 1 Math Coin Identification & Counting | #GoOpenVA K to 1st Grade Coin Learning Materials | Coin Classroom-US Mint (some resources may exceed first grade expectations) Learning Coins for Kids | Penny, Nickel, Dime, and Quarter - YouTube Identify Pennies, Nickels, and Dimes - Illustrative Math|Kendall Hunt (Warm-up & Activity 1) Counting Money-Sets of Like Coins and Bills-You Tube

Indicator Number	Indicator	Resources
1.NR.1.3	Compose and decompose whole numbers from 1 through 99 in more than one way using tens and ones. Explain and demonstrate each composition or decomposition with the use of concrete models, drawings, and/or equations.	Compose Decompose 100-Mathematical Ideas Different Ways to Make a Number-Open Up Resources Different Ways to Make a Number-Illustrative Math|Kendall Hunt Composing and Decomposing Numbers-The Recovering Traditionalist
1.NR.2.2	Skip count by fives and tens from any multiple of five to 100, identifying place value patterns in the sequence.	10 More and 10 Less | Knowitall.org Number Sequence Hopscotch | Knowitall.org Skip Counting by Fives-edc.org
1.NR.3.1	Compare representations of two numbers up to 100 using the phrases is greater than, is less than, or is equal to (the same value as).	Bunny Hop Number Comparisons | Knowitall.org Bundles of Ten - More or Less? | Knowitall.org Comparing Double Digit Numbers | Knowitall.org
1.PAFR.1.5	Apply and explain the Commutative Property of Addition to find the sum (through 20) of the two addends and explain that the value does not change when the order of the two numbers changes.	10+ Facts | Knowitall.org The Commutative Property-UnboundEd Relate Counting to Addition-Illustrative Math|Kendall Hunt
1.PAFR.2.1	Create, describe, and extend (to the next term) a growing shape pattern.	Pattern This | Knowitall.org Identify A Growth Pattern Using Objects-UnboundEd Patterns That Grow-Illustrative Math|Kendall Hunt
1.PAFR.2.2	Create, describe, and extend (to three terms within a sequence) repeating patterns using AB, AAB, ABB, and ABC type patterns.	Pattern This | Knowitall.org Identify Patterns Using Objects-UnboundEd Identify And Duplicate Patterns Using Sounds And Movement-UnboundEd Duplicate And Extend Patterns With Movement And Objects-UnboundEd

Second Grade

Indicator Number	Indicator	Resources
2.DPSR.1.1	Create a survey question and collect data with up to four categories. Create tally charts, picture graphs, dot plots, and bar graphs with a single-unit scale to read the graph, answer questions, and draw conclusions. Limit to one-step add-to, take-from, part-part-whole, and comparison questions.	Summer Olympics Data Graphing | Knowitall.org Ice Cream Data Sets | Knowitall.org How to Do a Survey-Math is Fun Grade-2-Collect organize and represent data-l4.pdf-s2temsc.org Create and answer survey questions-Khan Academy Ways to Represent Data-Illustrative Math|Kendall Hunt Problem Solving With Categorical Data-UnboundEd
2.MGSR.1.2	Use analog and digital clocks to tell and record time in five-minute intervals, identifying AM and PM.	Telling Time through Theatre! | Knowitall.org It's That Time! | Knowitall.org Interactive Math Lesson | Telling Time: Analog & Digital (5 Minute Intervals)-iknowit.com
2.MGSR.2.2	Classify shapes as polygons or non polygons and defend that determination based on their attributes.	Polygon Sorting Activity: Geometry Worksheet for Grades 3-5-storyboardthat.com

2.MGSR.2.3	Classify two-dimensional shapes as triangles or quadrilaterals and justify each classification.	**Identify and sort shapes-Openupresources** **Explain decisions about classifications of triangles into categories-UnboundEd** **Build, identify, and analyze two-dimensional shapes-UnboundEd (omit pentagon and hexagon)** **Identify and sort shapes-Illustrative Math|Kendall Hunt** **Shapes That Are Flat-Illustrative Math|Kendall Hunt** **Describe Two-Dimensional Shapes Based on Attributes-UnboundEd** **Build, Identify, and Analyze Two-Dimensional Shapes with Specified Attributes-UnboundEd** (Omit shapes not covered by the indicator) **Draw Different Polygons Including Triangles, Quadrilaterals, Pentagons, and Hexagons-UnboundEd** (Omit shapes not covered by the indicator)
2.NR.3.1	Compare representations of whole numbers up to 999 and write a comparison statement using words and symbols. Limit to is equal to (=), is less than (<)and/or is greater than (>).	**Using <, > and =|UnboundEd** **Compare Numbers Using <, > and =|UnboundEd** **Compare Numbers on the Number Line-Illustrative Math|Kendall Hunt** **Place Value Comparisons (Part 1)-Illustrative Math|Kendall Hunt** **Place Value Comparisons (Part 2) Illustrative Math|Kendall Hunt**
2.NR.3.2	When given a two-digit number, identify which multiple of 10 the number is closest to.	**OUR K–5 Math | Grade 3 Unit 3 Section C Lesson 14-openupresources**

2.NR.4.2	Explain that when partitioning a square, rectangle, or circle into two or four equal parts, the parts become smaller as the number of parts increases.	Partition Squares, Rectangles, & Circles | Knowitall.org Partitioning Pizza Palace | Knowitall.org T4T Partitioning into Halves & Fourths | Recent Activity | #GoOpenNC
2.PAFR.1.2	Determine and explain if an equation (within 20) is true using a variety of equation formats.	Grade 2 Unit 1 Section A Lesson 3-Relate Addition and Subtraction within 20-openupresources Understand the meaning of the equal sing by pairing equivalent expressions Lesson 17-UnboundEd Understand the meaning of the equal sign by pairing equivalent expressions Lesson 18-UnboundEd Solve take from with result unknown math stories with math drawings-UnboundEd
2.PAFR.1.4	For any number from 0 to 99, find the number that makes 100 when added to the given number.	Sums to 100 – Elementary Math Number Chart 0 to 99 | Free Virtual Manipulatives | Toy Theater
2.PAFR.1.6	Apply the Associative Property of Addition to find the sum (through 20) of three addends and explain that the value can be found using various grouping strategies.	Introducing the Associative Property of Addition - Solvent Learning Associative property-MATH.net 10+ Facts|Knowitall.org
2.PAFR.1.8	Sort a collection of 20 or fewer objects into two groups to determine if the number of objects is even or odd.	Ladybug Worksheet Odd and Even | Knowitall.org Sorting Objects into Groups-Maine.gov.doe Equal Groups-Illustrative Math|Kendall Hunt The meaning of even and odd numbers-UnboundEd
2.PAFR.2.1	Describe, extend, and create a growing shape pattern with up to three terms within a sequence.	Building Up! Growing Patterns in Towers | Knowitall.org Patterns that Grow-Illustrative Math|Kendall Hunt Identify A Growth Pattern Using Objects-UnboundEd

2.PAFR.2.2	Create, describe, and extend an appropriate one-step rule for number patterns using addition and subtraction within 100.	**2.2.1 Patterns | Minnesota STEM Teacher Center**

Third Grade

Indicator Number	Indicator	Resources
3.DPSR.1.1	Collect and organize categorical and numerical data based on observations, surveys, experiments, and investigations with whole number values using tables, scaled picture graphs, scaled bar graphs, or dot plots. Use titles and labels. Limit scales to multiples of 1, 2, 5, and 10.	Graphs | Knowitall.org Create Bar Charts (Practice) | Khan Academy Creating bar graphs (article) | Bar graphs | Khan Academy Creating picture and bar graphs (video) | Khan Academy Creating picture graphs (article) | Khan Academy Reading bar graphs: movies (video) | Khan Academy Daphne Draws Data
3.DPSR.1.2	Solve one-step, real-world situations using whole number data represented in tables, scaled picture graphs, scaled bar graphs, or dot plots. Limit scales to multiples of 1, 2, 5, and 10.	Introducing Multiplication-Illustrative Math|Kendall Hunt
3.MGSR.1.2	Determine the perimeter of regular and irregular triangles and quadrilaterals with known side lengths.	3.MGSR.1.2 | Khan Academy Distance Around Shapes-Illustrative Math|Kendall Hunt (Omit shapes that exceed the indicator)
3.MGSR.1.3	Determine if a real-world situation is an example of the need for finding the area or the perimeter of a figure.	Spring Garden Math: Area vs. Perimeter Puzzles! | Knowitall.org Area and Perimeter | Knowitall.org The Amazing Amusement Park | Knowitall.org
3.MGSR.2.1	Determine the value of any collection of coins, not to exceed $5. Write the amount in the form of dollars and cents using the decimal notation. Limit to penny, nickel, dime, and quarter.	Determining the Value of a Collection of Coins and Bills - Math 4 Texas Coin Counting Challenge: Total Value Calculation in Decimals Find the Total Value of Coins and Bills | CK-12 Foundation

Indicator Number	Indicator	Resources
3.MGSR.2.2	Use analog and digital clocks to tell and record time to 1-minute intervals, identifying AM and PM.	Do you know what time it is?-S2temsc.org Analog Clocks for Kids | How To Tell Time - YouTube Time to the Nearest Minute- Illustrative Math|Kendall Hunt Measuring Time as a Number Line-UnboundEd Counting by Fives and Ones-UnboundEd
3.MGSR.2.3	Solve problems involving addition and subtraction of time intervals to determine elapsed time to the nearest half hour.	Adding & Subtracting Intervals of Time in Minutes - Math 4 Texas Find Elapsed Time (video lessons, examples, solutions)
3.MGSR.2.4	Estimate and measure length/distance to the nearest half inch and nearest whole centimeter.	Measuring to the nearest Half inch Measuring Length in Inches and Centimeters Measure in Halves of an Inch-Illustrative Math|Kendall Hunt Measure in Centimeters-Illustrative Math|Kendall Hunt Measure and Estimate in Centimeters-Illustrative Math|Kendall Hunt Measure an object twice using different length units and compare-UnboundEd
3.MGSR.2.5	Determine which unit of liquid volume is most appropriate to measure in real-world situations. Limit to fluid ounces, cups, pints, quarts, gallons, milliliters, and liters.	Capacity and Weight in the Real World -- Out Teach | OER Commons
3.MGSR.3.1	Describe and draw right, acute, obtuse, and straight angles. Identify these angle types in two-dimensional figures including triangles and quadrilaterals.	Tree-mendous Angles! | Knowitall.org Angles: Equal To, Greater, Or Less Than 90 Degrees-UnboundEd What is an Angle? -Illustrative Math|Kendall Hunt Compare and Describe Angles- Illustrative Math|Kendall Hunt (protractors are not needed) Types of Angles- Illustrative Math|Kendall Hunt

Indicator Number	Indicator	Resources
3.MGSR.3.2	Identify, describe, and draw points, lines, line segments, rays, intersecting lines, perpendicular lines, and parallel lines. Identify these in two-dimensional figures.	Line and Angle Blueprints | Knowitall.org Lines, Line Segments, and Rays | Knowitall.org Identify And Draw Points, Lines, Rays and Angles-UnboundEd Perpendicular Lines-UnboundEd Parallel Lines-UnboundEd Points, Lines, Rays, and Segments-Illustrative Math|Kendall Hunt Two or More Lines-Illustrative Math|Kendall Hunt Points and Lines All Around-Illustrative Math|Kendall Hunt
3.NR.1.1	Read, write, and represent whole numbers through the thousands period (0 to 999,999) on a number line and in standard form, base ten language, word form, and equations in expanded form.	From Hundredths to Hundred-thousands-UnboundEd Read and write multi-digit numbers using base ten numerals-UnboundEd
3.NR.1.2	Compose and decompose 4-digit whole numbers in multiple ways using thousands, hundreds, tens, and ones.	Composing and Decomposing Numbers-Mathisfun.com Represent Numbers in Different Ways-Illustrative Math|Kendall Hunt
3.NR.1.3	Compare two whole numbers up to 999,999 based on the place value of the digits using the symbols for is equal to (=), is less than (<) or is greater than (>).	How Do You Compare Two Whole Numbers? | Virtual Nerd Comparing place values-Khan Academy Beyond 100,000-Illustrative Math|Kendall Hunt Numbers To 1 Million Using Place Value Charts- UnboundEd Multi-Digit Numbers, Base Ten Numerals, Number Names-UnboundEd

Indicator Number	Indicator	Resources
3.NR.1.4	Round whole numbers from 0 to 1,000 to the nearest 10 or 100.	Round Numbers-Illustrative Math|Kendall Hunt Apply Rounding-Illustrative Math|Kendall Hunt Rounding to the nearest ten and hundred-UnboundEd
3.NR.2.2	Represent fractions from 0 to 1 using concrete, set, area, and linear models, and write them in standard form and word form. Limit denominators to 2, 3, 4, 6, and 8.	Grade 3 Unit 5 Section A - Introduction to Fractions-Openupresources Non-Unit Fractions-Illustrative Math|Kendall Hunt Build Fractions from Unit Fractions-Illustrative Math|Kendall Hunt To the Number Line-Illustrative Math|Kendall Hunt Representations of Fractions (Part 1)-Illustrative Math|Kendall Hunt Fractional Parts of Different Wholes-UnboundEd
3.NR.2.3	Express whole numbers as fractions and identify fractions that are equivalent to whole numbers. Limit denominators to 1, 2, 3, 4, 6, and 8.	Fun with Fractions | Knowitall.org Whole Numbers as Fractions and Equivalence-UnboundEd Whole Number Fractions When the Unit Interval Is 1-UnboundEd Whole Number Fractions Greater Than 1-UnboundEd Whole Numbers and Fractions-Illustrative Math|Kendall Hunt

Fourth Grade

Indicator Number	Indicator	Resources
4.DPSR.2.1	Determine the possible outcomes of a simple event and record the probability as certain, possible, or impossible.	Probability - certain, likely, equally likely, unlikely or impossible-Kids Math Logic (this goes beyond the indicator limits) Probability-Mathisfun.com
4.MGSR.1.1	Apply perimeter formulas for rectangles to solve real-world situations including finding the perimeter, given the side lengths, and finding an unknown side length.	Finding the Perimeter of a Rectangle with Smack Dab in the Middle of Maybe | Knowitall.org Area and perimeter | 4th grade math | Khan Academy Perimeter and Area Together | Cyberchase | PBS LearningMedia
4.MGSR.1.2	Apply area formulas for rectangles to solve real-world situations. Use square units to label area measurements.	Finding the Perimeter of a Rectangle with Smack Dab in the Middle of Maybe | Knowitall.org Solve word problems involving area- UnboundEd
4.MGSR.2.2	Solve real-world situations involving addition and subtraction of time intervals within 60 minutes to find elapsed time, start time, or end time.	Caterpillar to Chrysalis: Elapsed Time | Knowitall.org Solve Problems Involving Time (Part 1)-Illustrative Math|Kendall Hunt Solve Problems Involving Time (Part 2)- Illustrative Math|Kendall Hunt Counting Backward and Forward with Time- UnboundEd Adding and Subtracting Time On the Number Line- UnboundEd
4.MGSR.2.3	Measure length to the nearest quarter inch.	Measure to inch quarter half-s2temsc.org Measuring to the Nearest 1/4 Inch (Quarter Inch) | How to Use a Ruler | Math with Mr. J

Indicator Number	Indicator	Resources
4.MGSR.2.4	Measure weight in customary units and metric units to the nearest whole unit. Limit to ounces, pounds, grams, and kilograms.	Converting gallons to quarts, pints & cups (video) | Khan Academy Metric units of mass (g and kg) | Conversion | Measurement (article) | Khan Academy
4.MGSR.2.5	Convert customary units of length, weight, and liquid volume from a larger unit to a smaller unit, given direct comparisons of the two measurements and/or the unit equivalencies within a single system of measurement. Limit to inches, feet, yards, ounces, pounds, fluid ounces, cups, pints, quarts, and gallons when given unit equivalences.	4.MGSR.2.5-Khan Academy Pounds and Ounces-Illustrative Math|Kendall Hunt
4.MGSR.3.1	Classify triangles according to side length (isosceles, equilateral, scalene) and angle measure (acute, obtuse, right, equiangular).	Constructions and Angles, Classifying Triangles | OER Commons Bridge Builders | Knowitall.org Analyze and classify triangles-UnboundEd
4.MGSR.3.2	Classify quadrilaterals in a hierarchy based on their shared attributes.	Quadrilateral Hierarchy Guide Hierarchy of Quadrilaterals-Illustrative Math|Kendall Hunt
4.NR.1.1	Read and write whole numbers through the millions period (0 to 999,999,999) in word, standards and equations in expanded form.	Order Multi-digit Numbers-Illustrative Math|Kendall Hunt
4.NR.1.3	Order whole numbers within 999,999 (no more than 3) in ascending or descending order and record the comparison(s) using symbols for is less than (<) and/or is greater than (>).	Comparing Numbers Up to 99,999-iknowit.com Order Multi-digit Numbers-Illustrative Math|Kendall Hunt
4.PAFR.1.3	Decompose numbers by the value of each digit to multiply whole numbers up to four digits by a one-digit number and two 2 digit whole numbers.	Multiplying and Dividing Multi-digit numbers-Illustrative Math|Kendall Hunt (Omit lessons 5 & 11)

Indicator Number	Indicator	Resources
4.PAFR.2.2	Use fraction and decimal equivalencies to add and subtract tenths and hundredths, to include mixed numbers and fractions greater than 1.	Apply fraction equivalence to add mixed numbers with tenths and hundredths (article) | Khan Academy Decimal Fraction Worksheets-Mathisfun.com Decimal Fractions-UnboundEd
4.PAFR.2.3	Represent and compute the product of a whole number times a unit fraction. Limit denominators to 2, 3, 4, 5, 6, 8, 10, 12, 25, and 100.	Multiplying a unit fraction and a whole number with fraction models | Khan Academy Divide to Multiply Unit Fractions-Openupresources

Fifth Grade

Indicator Number	Indicator	Resources
5.DPSR.1.1	Describe data by determining the range and mode, including whole numbers, fractional data, and decimal data. Limit fractions to denominators of 2, 3, 4, 5, 6, 8, and 10, and limit decimals to decimals through the hundredths place.	Range and Mode | How to Find the Range and Mode of a Data Set
5.DPSR.1.2	Solve two-step, real-world situations using whole number and fractional data represented in tables, line graphs, scaled bar graphs, or dot plots. Limit fractions to denominators of 2, 3, 4, 5, 6, 8, 10, 12, 20, 25, 50, and 100.	Line Plots | Knowitall.org Line Plot Creator | Knowitall.org
5.DPSR.1.3	Analyze categorical and numerical data in graphical displays to make predictions or draw conclusions. Limit displays to tables, bar graphs, dot plots, line graphs, and circle graphs with scales of whole numbers, halves, fourths, and eighths.	Line Plots | Knowitall.org Line Plot Creator | Knowitall.org Daphne Draws Data Tiger Math-You Tube Read Aloud What's Going On in This Graph?-The New York Times
5.MGSR.1.1	Solve problems involving area and perimeter of composite figures by decomposing with rectangles.	Cool in the Pool: Area | Knowitall.org Finding the Area of a Composite Figure | Area of Composite Rectangles Find the Area of Figures-Illustrative Math|Kendall Hunt
5.MGSR.1.2	Estimate and measure the volume of a right rectangular prism with whole-number side lengths by filling it with unit cubes.	Representing Volume of Right Rectangular Prisms with Unit Cubes | PBS LearningMedia Volume | 5th grade math | Khan Academy Volume of Right Rectangular Prisms | PBS LearningMedia
5.MGSR.2.2	Estimate and measure lengths to the nearest eighth of an inch or nearest millimeter.	How Do You Measure an Object in Millimeters Using a Ruler? | Virtual Nerd How Do You Measure an Object in Inches Using a Ruler? | Virtual Nerd

Indicator Number	Indicator	Resources
5.MGSR.3.1	Identify the origin, x-axis, and y-axis in the coordinate system. Write, plot, and label ordered pairs, including values in a function table, in the first quadrant of the coordinate plane.	Frisbees in the Coordinate Plane | Knowitall.org Coordinate Plane City | Knowitall.org Coordinate plane word problems (quadrant 1) (practice) | Khan Academy
5.MGSR.3.2	Represent mathematical and real-world situations by graphing, labeling, and interpreting points in the first quadrant of the coordinate plane.	5.MGSR.3.2-Khan Academy Frisbees in the Coordinate Plane | Knowitall.org Coordinate Plane City | Knowitall.org
5.NR.1.1	Read, write, and represent multi-digit numbers from 0 to 999 with decimals to the thousandths place. Use pictorial, word, standard, or expanded form with fraction or decimal notation.	5.NR.1.1-Khan Academy Name Decimal Fractions In Various Forms-UnboundEd Thousandths in Expanded Form-Illustrative Math|Kendall Hunt
5.NR.1.2	Explain how the value of a digit in a multidigit number changes if the digit moves one or more places to the left or right in the base ten system. Include decimals to the thousandths place.	5-NR.1.2-Khan Academy Ten Times as Much-Illustrative Math|Kendall Hunt What is One Thousandth?-Illustrative Math|Kendall Hunt
5.NR.1.3	Round decimal numbers up to 999 with decimals to the thousandths place to the nearest hundredth, tenth, or whole number.	5.NR.1.3-Khan Academy Round Doubloons-Illustrative Math|Kendall Hunt Round Decimals-Illustrative Math|Kendall Hunt Rounding Decimals to Any Place Lesson 7-UnboundEd Rounding Decimals to Any Place Lesson 8-UnboundEd
5.NR.1.4	Use patterns to explain the exponents when multiplying and dividing by powers of 10, not to exceed the thousandths place	5.NR.1.4-Khan Academy Measurement Conversions and Powers of 10-Illustrative Math|Kendall Hunt
5.NR.2.1	Compare fractions and mixed numbers with like and unlike denominators of 2, 3, 4, 5, 6, 8, 10, 12, 20, 25, and 100 using equivalence to create a common denominator. Use the symbols for is less than (<), is more than (>), or is equal to (=) to record the comparison.	Equivalent fractions and comparing fractions | Khan Academy

Indicator Number	Indicator	Resources
5.PAFR.1.1	Use a strategy to compute the product of a two- or three-digit factor times a two-digit factor to include real-world situations.	Multiplying 3 digit by 2 digit with partial products (video) | Khan Academy Multiplying two 2-digit numbers using partial products (video) | Khan Academy
5.PAFR.1.2	Use a strategy to compute the quotient of a multi-digit whole number dividend divided by a two-digit whole number divisor, with and without remainders, to include real-world situations. Limit the dividend to four digits.	5.PAFR.1.2-Khan Academy Partial Quotients and Multi-Digit Whole Number Division-UnboundEd Multi-digit Division Using Partial Quotients-Illustrative Math|Kendall Hunt
5.PAFR.1.3	Use a strategy to compute sums and differences of decimal numbers to the hundredths	Smart Shopping Spree!: Decimals to the Hundredths | Knowitall.org Add and Subtract Decimals-Illustrative Math|Kendall Hunt Adding And Subtracting Decimals-UnboundEd
5.PAFR.1.4	Use a strategy to multiply a one-digit whole number by a decimal to the hundredths and divide a decimal to the hundredths (dividend) by a one-digit whole number (divisor). Justify the calculation.	Multiply Decimals and Whole Numbers-Illustrative Math|Kendall Hunt Multiply A Decimal Fraction By Single-Digit Whole Numbers-UnboundEd (Omit Factors involving beyond hundredths)
5.PAFR.2.1	Use a strategy to compute sums and differences of fractions and mixed numbers with unlike denominators and justify the sum or difference to include real-world situations. Limit denominators to 2, 3, 4, 5, 6, 8, 10, 12, 20, 25, 50, and 100.	5.PAFR.2.1-Khan Academy Add and Subtract Fractions with Unlike Denominators-Illustrative Math|Kendall Hunt Making Like Units Pictorially-UnboundEd (Omit denominators outside of established limits) Making Like Units Numerically-UnboundEd (Omit denominators outside of established limits)
5.PAFR.2.2	Use a strategy to multiply a fraction by a fraction or a fraction by a whole to include real-world situations. Limit denominators to 2, 3, 4, 5, 6, 8, 10, and 12.	Clay Creations: Multiplying Fractions | Knowitall.org Multiplying Fractions-Khan Academy

Indicator Number	Indicator	Resources
5.PAFR.2.3	Interpret and represent division of a whole number dividend by a unit fraction divisor and a unit fraction dividend by a whole number divisor and apply to real-world situations. Limit denominators to 2, 3, 4, 5, 6, 8, 10, and 12.	The Perfect Pumpkin Loaf (Dividing Fractions + Volume) | Knowitall.org Dividing Fractions | Knowitall.org Division of Fractions and Decimal Fractions-UnboundEd Fraction Division-Illustrative Math|Kendall Hunt (limit to aligned denominators) Divide A Whole Number By A Unit Fraction-UnboundEd Divide A Unit Fraction By A Whole Number-UnboundEd Fraction Division-UnboundEd Write Equations And Word Problems Using Diagrams-UnboundEd
5.PAFR.3.1	Determine the least common multiple (LCM) to find a common denominator. Limit denominators to 2, 3, 4, 5, 6, 8, 10, 12, 20, 25, 50, and 100.	How to Find the Least Common Denominator for Kids | It's Easy With Twinkl | Twinkl USA Least Common Denominator-Mathisfun.com
5.PAFR.3.2	Determine the greatest common factor (GCF) of two numbers both less than or equal to 50 to simplify a fraction into its standard form.	Birthday Goodie Bags: GCF & LCM | Knowitall.org Greatest Common Factor-Mathisfun.com Greatest common factor review (article) | Khan Academy Greatest common factor and least common multiple-s2temsc.org
5.PAFR.3.3	Identify a rule that can describe the pattern from the data of a function table and write it as an expression.	2.1.7: Function Rules for Input-Output Tables - K12 LibreTexts How Do You Write a Rule for a Table? | Virtual Nerd
5.PAFR.3.4	Translate a two-step real-world situation into a numerical expression using parentheses as grouping symbols and evaluate the expression.	Interactive Asset | Pharmacist | Kids Work! | Knowitall.org

References

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