MAKING MATH MEANINGFUL **Embracing the Principles of Analysis and Induction** NUMBER AND OPERATIONS

Understands the relationship between quantities (whole numbers) Count aloud forward in sequence to 10. \checkmark Recognize that a number can be used to represent how many objects are in a \checkmark set up to 20. Use ordinal numbers to represent the position of an object in a sequence up V to 20. Recognize without counting the quantity of a small group of objects in organized and random arrangements up to 10. Count forward, with and without objects, from any given number up to 10. Read, write, discuss, and represent whole numbers from 0 to at least 10. Representations may include numerals, pictures, real objects, spoken words, and manipulatives. Find a number that is 1 more or 1 less than a given number up to 10.

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L6

Using the words more than, less than or equal to compare and order whole numbers, with and without objects, from 0 to 20. Develop conceptual fluency with addition and subtraction (up to 10) using objects and pictures. Compose and decompose numbers up to 10 with objects and pictures. Understand the relationship between whole numbers and fractions. Distribute equally a set of objects into at least two smaller equal sets. \checkmark Count, compare, and represent whole numbers up to 100, with an emphasis on groups of tens and ones. Recognize numbers 0 to 20 Read, write, discuss, and represent whole numbers up to 20. Representations may include numerals, addition and subtraction, pictures, tally marks, and manipulatives. Count forward, with and without objects, from any given number up to 20. \checkmark Compare and order whole numbers from 0 to 20. Use knowledge of number relationships to locate the position of a given whole number on an open number line up to 20. Use objects to represent and use words to describe the relative size of \checkmark numbers, such as more than, less than, and equal to. Use the appropriate math symbols $(<, >, =, \neq)$ to describe the relative size of numbers, such as more than, less than, equal and unequal. Solve addition and subtraction problems up to 10 in real-world and mathematical contexts. Represent and solve real-world and mathematical problems using addition and subtraction up to ten. V Determine if equations involving addition and subtraction are true. V Demonstrate fluency with basic addition facts and related subtraction \checkmark

facts up to 10. Compare and represent whole numbers up to 99 with an emphasis on place value and equality.

Read, write, discuss, and represent whole numbers up to 99. Representations may include numerals, addition and subtraction, pictures, tally marks, number lines and manipulatives, such as bundles of sticks and base 10 blocks.

Count forward, with and without objects, from any given number up to 99 by 1s, 2s, 5s and 10s. Find a number that is 10 more or 10 less than a given number up to 100. Compare and order whole numbers from 0 to 99. Read, write, discuss, and represent whole numbers up to 99. Representations may include numerals, words, pictures, tally marks,

number lines and manipulatives. Use knowledge of number relationships to locate the position of a given whole number on an open number line up to 99. Use place value to describe whole numbers between 10 and 99 in terms of

tens and ones.

comparative language, numbers, and symbols (e.g., 25 > 17, 73 < 98, page 85 comes after page 84, 53 is between 50 and 60).		V				
Determine the unknown addend(s) or factor(s) in equivalent and non-equivalent expressions. (e.g., $5 + 6 = 4 + \Box$, $3 \ge 8 < 3 \ge \Box$).	•	•				
Add and subtract one- and two- digit numbers in real-world and mathematical problems.						
Use the relationship between addition and subtraction to generate basic facts up to 20.						
facts up to 99. Use strategies and algorithms based on knowledge of place value and		•				
equality to add and subtract two-digit numbers. Solve real-world and mathematical addition and subtraction problems						
Use concrete models and structured arrangements, such as repeated addition, arrays and ten frames to develop understanding of						
Explore the foundational ideas of fractions.			•			
Identify the parts of a set and area that represent fractions for halves, thirds, and fourths.			>			
Construct equal-sized portions through fair sharing including length, set, and area models for halves, thirds, and fourths.						
Identify coins and their values Identify pennies, nickels, dimes, and quarters by name.						
Determine the value of a set of coins.						
Determine the value of a collection(s) of coins. Use a combination of coins to represent a given amount of money up to		•				
Use a combination of coins to purchase an item. Determine whether or						
Given a total cost and amount paid, find the change required.						
Compare and represent whole numbers up to 999 with an emphasis on place value and equality.						
Read, write, discuss, and represent whole numbers up to 1,000. Representations may include numerals, words, pictures, and			• 🗸			
Use place value to describe whole numbers between 1 and 1,000 in terms of hundreds, tens and ones. Know that 100 is 10 tens, and 1,000 is 10						
hundreds. Find 10 more or 10 less than a given three-digit number. Find 100 more			•			
or 100 less than a given three-digit number. Use place value to compare and order whole numbers up to 999 using			•			
page 351 comes after page 350, 753 is between 700 and 800).			•			
repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line and skip counting.			•			
Using the cumulative, associative and multiplication distributes over addition to represent the multiplication facts.			• •			
Demonstrate fluency of multiplication facts with factors up to 10. Use strategies and algorithms based on knowledge of place value and						
Use addition and subtraction to solve real-world and mathematical problems involving whole numbers. Using the part-whole relationship			•		•	
to determine which operation, addition or subtraction, is appropriate to solve the problem.	•		~			
Represent division facts by using a variety of approaches, such as repeated subtraction, equal sharing and forming equal groups.					•	
Recognize the relationship between multiplication and division to represent and solve real-world problems.			••			
situations. Read and write fractions with words and symbols.			•			
Construct fractions using length, set, and area models.			• •			
Recognize unit tractions and use them to compose and decompose fractions related to the same whole. Use the numerator to describe the number of parts and the denominator to describe the number of partitions					• 🗸	
partitions. Compare and represent whole numbers up to 999,999 with an emphasis on place value and equality						
Read, write, discuss, and represent whole numbers up to 999,999. Representations may include numerals, expressions with operations				•		
words, pictures, number lines, and manipulatives. Use place value to describe whole numbers between 1,000 and 999,999 in				•		
terms of ten thousands, thousands, hundreds, tens and ones, including expanded form.				~		
Find 10,000 more or 10,000 less than a given five-digit number. Find 1,000 more or 1,000 less than a given four- or five-digit number. Find 100 more or 100 less than a given four- or five-digit number.				• •		
Use place value to compare and order whole numbers up to 999,999, using comparative language, numbers, and symbols.				•		
Recognize when to round numbers and apply understanding to round numbers to the nearest ten thousand, thousand, hundred, and ten and use compatible numbers to estimate sums and differences.				•		
Use strategies and algorithms based on knowledge of place value, equality and properties of addition and multiplication to multiply a two-				•		
Solve real-world and mathematical problems using multiplication and division.						
Demonstrate fluency with multiplication and division facts with factors up to 12.				~		
Use an understanding of place value to multiply or divide a number by 10, 100 and 1,000.				•		
Multiply 3-digit by 1-digit or a 2-digit by 2-digit whole numbers, using efficient and generalizable procedures and strategies, based on				•		
Estimate products of 3-digit by 1-digit or 2-digit by 2-digit whole						
numbers using rounding, benchmarks and place value to assess the reasonableness of results.				•		
Solve multi-step real-world and mathematical problems requiring the use of addition, subtraction, and multiplication of multi-digit whole numbers. Use various strategies, including the part-whole relationship,						
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