STRAND: NUMBER

Foundational Understandings

The principles of counting are the basis for understanding the meaning of numbers.

A number can be represented concretely, pictorially, and symbolically.

A number can be represented in various equivalent ways.

Addition results in a total. Subtraction results in a difference.

Financial literacy is the basis for making responsible decisions about money and considering the impact the decisions have on oneself and on others.

Solving problems helps children learn about numbers, operations, and financial literacy both inside and outside the classroom.

Applications

COUNTING	Rote Count Forward and Backward	1/2: Pre-counting2/3: ChantSays someSings ornumber wordschantswithout order ornumbermeaningwords	r 2/3: Number Calling r Says numbers with intention to count, without the right order or meaning	3/4: Rote Counting Forward 1–5 Counts forward from 1 to 5 in stable order with no meaning	4/5: Rote Counting Forward 1–10 Counts forward from 1 to 10 in stable order with no meaning	/5: Rote Counting Backward 5–1 Counts backward from 5 to 1 with no meaning d/5: Rote Counts Backward 10– Counts backward from 10 to 1 with no meaning
	Count Objects	2/3: 1-to-1 Correspondence 1 and 2 Counts 1 or 2 objects and uses a number word for each object	3/4: 1-to-13/4: Cardrespondence 1-5Ints objects fromUndersis5 using 1 numbersaidd for each objectrearrang	linality and Conservation of Number 1–5 tands that the last number is "how many" and that ing does not affect quantity	3/4: Making Sets of Objects 1–5 Shows a specified number of objects using 1-to-1 correspondence and cardinality	4/5: Cardinality and Conservation of Number 1–10 Understands that the last number said is "how many" and that rearranging does not affect quantity
PLACE VALUE AND REPRESENTING NUMBERS	Subitize	2/3: Subitizing 1 and 2 Identifies familiar collections of 1 or 2 without counting	4/5: Matching Small Collections 1–5 Makes matching collections when shown 1 to 5 objects, without saying how many	4/5: Subitizing 1–3 Can tell how many without counting when shown 1 to 3 objects briefly	4/5: Subitizing 1–5 Can tell how many without counting when shown 1 to 5 objects briefly	
	Represent Whole Numbers Concretely, Pictorially, Symbolically	2/3: Representing Concretely and Pictorially 1 and 2 Associates pictures or objects with a quantity and says a number word	2/3: Recognizing Numerals Recognizes numerals in the environment without meaning and writes some numerals	3/4: Recognizing Numerals 0–10 Recognizes numerals 0 to 10 and knows the numera name stands for a number	4/5: Representing Concretely and Pictorially 1–5 Shows numbers 1 to 5 using concrete materials and/or pictures	4/5: Representing Concretely and Pictorially 1–10 Shows numbers 1 to 10 using concrete materials and/or pictures
	Compose and Decompose Numbers	3: Composing by Recognizing Parts and Whole Understands that the parts make up the whole	3/4: Knowing the Whole Is Greater Than the Parts Understands that the whole is greater than each of its parts	3/4: Decomposing by Recognizing Parts and Whole Understands that a whole can be separated into parts	3/4: Knowing the Parts Are Less Than the Whole Understands that each part is less than the whole	4/5: Composing and Decomposing to 54/5: Composing to 5Makes multipleMa representations of quantities to 5representations
	Compare, Order, Relate Whole Numbers	2/3: Recognizing More, Fewer, and the Same Recognizes when a set has more, fewer, or the same as another set	2/3: Comparing Quantities Recognizes when a quantity is more or fewer than another quantity without counting	2/3: Identifying Position Identifies first, second, and last	3/4: Matching Sets Identifies sets as having more, fewer, or the same by matching 2 sets using 1-to-1 correspondence	4/5: Comparing Similar Objects by Counting Counts sets of same-size objects to identify more, fewer, or the same Objects



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4/5: Movement Is Magnitude Quantity is greater when counting forward and less when counting backward

4/5: Making Sets of Objects 1-10 Shows a specified number of objects using 1-to-1 correspondence and cardinality

4/5: **Rote Counting** Starting Anywhere 1–10 Counts forward and backward starting at any number from 1 to 10

4/5: Order Irrelevance Counts objects using 1-to-1 correspondence starting at any object

Composing and omposing to 10 akes multiple resentations of antities to 10

Comparing Dissimilar pjects by Counting Counts sets of t-size objects to identify , fewer, or the same

Number trajectory continued on next page

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ADDITION	Meaning of Addition	3/4: Joining to Determine Sums of Objects 1–3 Joins 2 sets and counts the total number of objects	4/5: Joining to Determine Sums of Objects 1–5 Joins 2 sets and counts the total number of objects	4/5: Counting On to Determine Sums of Objects 1–5 Counts on from the first set to determine the total number of objects	4/5: Joining to Determine Sums of Objects 1–10 Joins 2 sets and counts the total number of objects	4/5: Counting On to Determine Sums of Objects 1–10 Counts on from the first set to determine the total number of objects
SUBTRACTION	Meaning of Subtraction	3/4: Separating to Determine Differences of Objects 1–3 Moves objects away and counts to determine how many are left	3/4: Separating to Determine Differences of Objects 1–5 Moves objects away and counts to determine how many are left	4/5: Separating to Determine Differences of Objects 1–10 Moves objects away and counts to determine how many are left	4/5: Comparing to Determine Differences of Objects 1–10 Compares quantities and counts to determine how many more or fewer in each set	
FINANCIAL LITERACY	Role Play Financial Situations	2/3: Role Playing Financial Transactions Role plays buying, selling, and trading in a variety of settings	2/3: Objects Have Value Understands that objects have value and makes exchanges	3/4: Wants and Needs Distinguishes between wants and needs	4/5: Characteristics of Coins Identifies the similarities and differences of coins	4/5: Relative Value of Coins Understands that coins have different values

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