

Early Learning Targeted Interventions Approved Numeracy Evaluation Methodology Tools



Early Numeracy Skills assessed prior to the year/grade level listed:

Skill Area	4-Year-Old	K	1 st Grade	2 nd Grade	3 rd Grade
Number Naming	X	X			
One-to-One Correspondence	X	X			
Oral Counting	X	X	X		
Quantity Comparison	X	X	X		
Cardinality		X	X		
Subitizing			X	X	
Number Order				X	
Strategic Counting				X	
Numeral Identification			X	X	X
Number Comparison				X	X
Addition and Subtraction				X	X
Problems in Context					X
Math Composite			X	X	X

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Skill Area	Prior to Grade Level	Definition
Number Naming	PK, K	The process of expressing numerical quantities using words (e.g., "one," "two," "twenty-three") instead of numerals (e.g., 1, 2, 23).
One-to-One Correspondence	PK, K	Pairing each item in one group with exactly one item in another group, ensuring every item is used once, with none left over, demonstrating the sets are equal in size, a crucial early math skill for counting and understanding quantity.
Oral Counting	PK, K, 1	The ability to recite a sequence of number words in the correct order (e.g., "one, two, three").
Quantity Comparison	PK, K, 1	The process of determining the relationship between two or more amounts or values (e.g., greater than, less than, equal to).
Cardinality	1, 2	This term refers to how many items are in a group. <ul style="list-style-type: none"> The group {apple, banana, cherry} has 3 items, so its cardinality is 3. The group {1, 2, 3, 4, 5} has 5 items, so its cardinality is 5.
Subitizing	1, 2	The ability to instantly recognize the number of items in a small group without counting them, like seeing four dots on a die and knowing it's four without counting.
Number Order	2	Ordering multi-digit numbers either from the smallest to the largest (ascending order) or from the largest to the smallest (descending order).
Strategic Counting	2	Using efficient mental math techniques beyond simply counting every single item, like " <u>counting on</u> " (starting with the larger number and counting up) or skip counting by 2s, 5s, 10s, and 100s.
Numeral Identification	1, 2, 3	Foundational math skill of recognizing and naming written numbers (like '7' as "seven"), connecting the symbol to its corresponding quantity and word. 2 nd graders should be able to read/write numbers to 1,000. 3 rd graders can read and interpret whole numbers, fractions, and decimals.
Number Comparison	2, 3	The mathematical process of determining the relationship between two or more numbers to see if one is greater than (>), less than (<), or equal to (=) another, using symbols to show these differences in quantity or value. 2 nd grade students compare up to three-digit numbers. 3 rd grade students compare whole numbers and fractions using <, =, > symbols and understanding equivalence.
Addition and Subtraction	2, 3	Addition is combining numbers to get a larger total (sum), using the '+' sign (e.g., 3 + 4 = 7), while subtraction is taking one number away from another to find the remaining amount (difference), using the '-' sign (e.g., 7 - 4 = 3). They are inverse operations, meaning you can use subtraction to find a missing addend in an addition problem, and vice-versa, forming the foundation of arithmetic.
Problems in Context	3	Word problems that embed abstract mathematical concepts within realistic, relatable scenarios, helping students see the real-world relevance and meaning behind the numbers and operations, rather than just solving isolated equations.
Math Composite	1, 2, 3	The math composite score is a single overall score that combines results from several math-related subtests. By bringing these scores together using careful statistical methods, it provides a clear and reliable picture of a student's overall math proficiency and allows results to be compared consistently over time.

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Approved tools for 4-year-olds and prior to Kindergarten:

Name of Tool	Screens for	Contact Information
aimswEBPlus	Number naming, quantity comparison, cardinality	aimswEBPlus
FastBridge	Number naming, one-to-one correspondence, quantity comparison, cardinality	FastBridge
myIGDis	Oral counting, number naming, one-to-one correspondence, quantity comparison, cardinality	myIGDis
PENS: Preschool Early Numeracy Screener	Oral counting, number naming, one-to-one correspondence, quantity comparison, cardinality	PENS

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Approved tools for prior to first, second, and third grade:

Name of Tool	Screens for	Contact Information
Acadience Math (formerly DIBELS NEXT)	Quantity comparison, cardinality, number order, strategic counting, numeral identification, subitizing, number comparison, addition & subtraction, problems in context, math composite	<u>Acadience Math</u>
aimswebPlus	Quantity comparison, cardinality, number order, strategic counting, numeral identification, subitizing, number comparison, addition & subtraction, problems in context, math composite	<u>aimswebPlus</u>
easyCBM	Cardinality, number order, strategic counting, addition & subtraction, problems in context, math composite	<u>easyCBM</u>
FastBridge	Quantity comparison, cardinality, strategic counting, numeral identification, subitizing, problems in context, math composite	<u>FastBridge</u>
Forefront Numeracy Screener (K-5)	Quantity comparison, cardinality, number order, strategic counting, numeral identification, subitizing, number comparison, addition & subtraction	<u>Forefront Numeracy Screener</u>
IXL Level UP	Quantity comparison, cardinality, number order, strategic counting, numeral identification, subitizing, number comparison, addition & subtraction, math composite	<u>IXL Level UP</u>
iReady	Quantity comparison, cardinality, subitizing, number order, numeral identification, number comparison, strategic counting, addition and subtraction, problems in context, math composite	<u>iReady</u>
MAP Growth	Quantity comparison, cardinality, number order, strategic counting, numeral identification, number comparison, addition & subtraction, problems in context, math composite	<u>MAP Growth</u>
Renaissance STAR	Quantity comparison, cardinality, number order, strategic counting, numeral identification, subitizing, number comparison, addition & subtraction, math composite	<u>Renaissance STAR</u>