

High Leverage Concepts Pre-K to Grade 2

Number

Additive Reasoning



PreK (4-5 years old)	Kindergarten	Grade One	Grade Two
Understanding of number values and sequences to 10 (counting, cardinality, conservation, and stable order) 1:1 Correspondence	Understanding of number values and sequences to 20 (counting, cardinality, and stable order) 1:1 Correspondence Comparing quantities	Understanding of number values and sequences to 120 (cross century, cross decade) Understanding place value when adding and subtracting numbers within 100 (in context and in equations)	Use place value understanding to add and subtract numbers accurately, flexibility, efficiently, and strategically within 1,000 (in context and in equations) (NO standard algorithm)
	Models for	Intervention	
5- and 10-frames for counting	10 frames	Multiple 10 frames	Multiple 10 frames/strips Number lines/adding up (using partpart-total focus). These start from zero.
	Models for	Instruction	
Fingers 5-frames for subitizing Dot patterns (regular and irregular)	Fingers Dot patterns (regular and irregular) Bead Racks	Number - number paths Adding and Subtracting - multiple 10 frames, ten strips	Place value materials (e.g., base ten blocks/pieces, digi-blocks, 10 frames, 10 strips) Number lines (articulated)
	Critical S	Strategies	
Counting by 1s Subitizing Organizing ¹ Tracking ²		Using Doubles Making 10 Making 100 Counting by 10s and 100s (start on any number), forward and backwards	

¹Young children need to have a way to keep track of what's been counted and what still needs to be counted. How do they organize to keep track without a teacher saying "line them up and touch them" to count? ²Tracking refers to the actual gesture of touching and counting.

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