High Leverage Concepts

ADDITIVE REASONING			MULTIPLICATIVE REASONING		FRACTIONS

Kindergarten	Grade One	Grade Two	Grade Three	Grade Four	Grade Five
Counting to 20 Cardinality One-to-one correspondence Comparing quantities	Knowledge of number values and sequence to 120 (cross century, cross decade) Knowledge of place value when adding and subtracting numbers within 120	Adding and subtracting 3-digit numbers with consistency and accuracy (standard algorithm not necessary)	Multiply and divide numbers within 100 (in context and in equations)	Multiply and divide any 2 numbers (in context and in equations)	All four operations with fractions solving accurately from both word problems and equations (using <u>no</u> standard algorithm; using modeling only)
MODELS FOR INTERVENTION					
10 frames for subitizing numbers 0-21	10 frames for decomposing for both addition and subtraction.	The open number line – leading to an "adding up" approach (w/o the number line)	Grouping or area models. EXPLICIT connection	Area decomposition strategy. Partitive division	Area model for add/sub fractions. Variety of models for multi/div including area
CRITICAL STRATEGIES					
adding doubles doubles +1 making 10 making 100 counting by 5's, 10's, 100's (start on any number)			multiplying by 2, 5, 10 sharing division quotative division		

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