Curriculum Unit Title

Using Model-Based Representation to Improve Addition and Subtraction Problem Solving in the First Grade

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KEY

LEARNING, ENDURING UNDERSTANDING, ETC.

Word problems can be solved by first identifying the problem as a joining or separating problem, then representing the problem, and lastly, solving for the unknown.

ESSENTIAL QUESTION(S) for the UNIT

How can I identify a problem as a joining or separating problem?

How can I represent word problems?

How do I solve for start, change, and result unknown joining or separating problems?

CONCEPT A	CONCEPT B	CONCEPT C	
Word problems must first be identified as either joining or separating problems.	Once identified as either joining or separating problems word problems should be represented.	Once a problem has been represented, it should be solved for the unknown (which may be the start, change, or result).	
*What is a joining problem? *What is a separating problem? *How do I identify a word problem as	How do I represent a word problem?	How do I solve for an unknown in an addition or subtraction equation?	
VOCABLII ABV A	VOCABLII ABV B	VOCABLII ABV C	

VOCABULARY A	VOCABULARY B	VOCABULARY C

Joining Problem Separating Problem	Math Mountains Circle Drawings Pictures	Start Unknown Change Unknown Result Unknown
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ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES

See unit appendices, for all unit equations, pre- and post- assessments, handouts, and exit tickets. Will need access to chart paper, markers, and dry-erase board.