



YALE NATIONAL INITIATIVE

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Curriculum Units by Fellows of the National Initiative
2011 Volume VI: Great Ideas of Primary Mathematics

Using Place Value to Teach Addition and Subtraction, Let's Count the Ways

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This unit is for 2nd grade, and can be used to teach any student struggling with regrouping or basic addition and subtraction. It utilizes ideas from Singapore math and intertwines the concepts of place value, addition and subtraction throughout. By working with these concepts together, students will gain a deeper, lasting understanding of the value of a number, and also of the operations of addition and subtraction. This unit utilizes three models from the Singapore approach to mathematics: the concrete model to introduce a concept, the pictorial model to further a student's conceptual understanding, and finally the symbolic model. This will allow for students' diverse learning styles and preferences to be reached, as well as students' differentiated learning stages.

(Developed for Mathematics, grade 2; recommended for Mathematics, grades 1-3, and Mathematics Remediation, all grades)

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