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Place Value for Future Teachers: A Lesson Study. Preliminary report.

At Sonoma State University, prospective elementary teachers have for years cited our place value unit involving base 5 as a key contributor to their growth as problem solvers and their conceptual thinking. To get the most leverage out of this class work, Mathematics and Education faculty have engaged in a lesson study process to refine the key mathematical activities in this unit. This included carefully designing mathematical prompts and anticipating student responses, with several iterations of observing, taping, revising and re-teaching the lessons. Our goals are for this experience to build students' problem-solving skills along with their understanding of place value.

We will share mathematical activities, classroom and planning video, and preliminary results on growth in students' understanding of place value. (Received September 17, 2007)