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Rachel Cochran, Jason Fulmore, John C. Mayer and Bernadette Mullins*

(bmullins@bsc.edu). Numerical Reasoning: An Inquiry-Based Course for K-8 Teachers.

Numerical Reasoning is a course designed to help K-8 teachers and pre-service teachers develop a deeper understanding of operations on fractions, decimals, and percents and shift their teaching practice toward an inquiry-based approach. We describe challenging activities from the course and discuss teacher gains in content knowledge and changes in attitudes toward mathematics. We also report on changes in classroom instructional practice as measured by the Reformed Teaching Observation Protocol and gains in student achievement as measured by the Stanford Achievement Test. (Received September 21, 2010)