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Bill Jacob* (jacob@math.ucsb.edu), Mathematics Department, University of California, Santa Barbara, Santa Barbara, CA 93106. *Inquiry about Inquiry: Use of case studies to develop mathematical ideas in courses for pre-service teachers.*

K-12 teachers need a deep and interconnected knowledge base in mathematics. This presentation will illustrate how analysis of children's mathematical work can be used to develop key topics in mathematics courses for pre-service teachers. Since the children in the cases are engaged in mathematical inquiry, and the pre-service teachers in the course are set to work to uncover the children's strategies and the mathematical relations between the strategies, we call this "inquiry about inquiry". (Received September 11, 2008)