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Trisha A Bergthold* (bergthold@math.sjsu.edu), Department of Mathematics, San Jose State University, One Washington Square, San Jose, CA 95192-0103, and **David Foster**. *Differentiated Problem Solving for Prospective K-8 Teachers*. Preliminary report.

This presentation will focus on a collection of non-routine mathematics problems authored by the Robert Noyce Foundation for use in K-8 schools. These materials are designed as problems-of-the-month (POMs), each with multiple levels of complexity and abstraction to accommodate differentiated instruction. This preliminary report will provide a summary description of the problems, the design perspective, examples, support materials, and a report on how these materials are being adapted for use with preservice teachers at San Jose State University. (Received September 18, 2007)