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Glenn Stevens* (ghs@math.bu.edu). *PROMYS: The Program in Mathematics for Young Scientists.*

Since 1989, the Program in Mathematics for Young Scientists (PROMYS) has provided an environment in which young people can practice mathematics in ways that are characteristic of research mathematics. PROMYS is a six week residential program for secondary students and their teachers from across the country, and internationally as well. The program has been sustained and enriched by two guiding principles: (1) An emphasis on mathematical habits of mind that support independence and creativity in facing unfamiliar mathematical challenges; and (2) a belief that mathematics is a deeply human activity best experienced within a richly interacting and mutually supportive community of learners including high school students, undergraduate and graduate students, secondary school teachers, and experienced mathematical researchers.

In this talk we will describe the history of PROMYS as well as some of the nuts and bolts methods of the program, with special attention to what we call the “Experience First” principles. (Received February 01, 2016)