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Of all pre-college curricula, the highest level of mathematics one studies in secondary school has the strongest continuing influence on bachelor's degree completion. Minority and low-income middle school students who could succeed in the college prep math and science courses often let the door close on mathematics without realizing what else the door is closing on. For the last five years Kalamazoo College has offered a two-stage program for these student that addresses this situation: a two week intensive mathematics camp on the Kalamazoo College campus in the summer, followed by a twice-weekly mathematics tutoring program on the campus during the following school year. This is not a remedial program. It is intended for students who have the potential to succeed in college prep math and science courses but who need some encouragement to continue learning the mathematical prerequisites. This talks describes the details of this program, including recruitment, logistics, curriculum, and assessment; discusses some of the difficulties we have faced and how we overcame them; and gives quantitative and qualitative measures of assessment that suggest both some successes of the program over its first five years and where we believe improvements can be made. (Received August 26, 2009)