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Addressing Barriers Through Outreach at the Girls Talk Math Camp.

Young women entering mathematics face several known barriers to success. These include lack of encouragement, a narrow picture of what it means to be a “math person” and not seeing themselves represented amongst mathematicians. The Girls Talk Math camp was founded in 2016 by the authors with the goal of addressing such barriers. Girls Talk Math is a free day camp for girls and gender nonconforming students in high school. The program’s core curriculum has campers working in groups on four activities: Completing one of several advanced problem sets; researching a female mathematician; writing a blog post about the math they learn; and writing and recording a podcast about their female mathematician. Each component was designed to encourage curiosity and give campers agency over their learning. This talk will discuss the rationale behind the structure of the program and the role of outreach in promoting diversity in mathematics. (Received September 15, 2020)