

1163-00-1313

Shelby Stanhope* (shelby.stanhope@afacademy.af.edu). *Cryptography Outreach Activity for High School or Middle School Students.*

In the typical high school curriculum, students are rarely exposed to interesting topics in mathematics outside the realms of algebra, trigonometry, geometry, and calculus. Despite this fact, they already have the mathematical background to explore mathematics beyond these traditional areas. One particularly accessible topic is cryptography. Students can learn to encrypted and decrypt secret messages using ciphers which rely on modular arithmetic. In this presentation, I will talk about a cryptography outreach event held for students at Philadelphia High School for Girls by faculty members, postdocs, graduate, and undergraduate students from Temple University. (Received September 15, 2020)