



PA STEM Girls
Collaborative Project



The PA STEM Girls Collaborative Project is currently recruiting teachers and afterschool providers to take part in the **CryptoClub Project**, funded by the National Science Foundation (NSF). The CryptoClub Project consists of classroom and web-based materials, which teach cryptography and related mathematics to middle-grade students in informal settings. The CryptoClub Afterschool Curriculum was developed with NSF support and has been nationally field-tested.

A typical CryptoClub afterschool program lasts about 16-20 sessions and uses games, treasure hunts and other informal activities to engage students in cryptography and mathematics. It applies topics from the middle-school curriculum, such as decimals and percent, division with remainder, common factors, negative numbers and pattern recognition. The program also includes cryptography games and activities from the CryptoClub website, <http://cryptoclub.org/>.

To learn more, check out the 3-minute video at <http://resourcecenters2015.videohall.com/presentations/493>. This video gives a brief overview of the project. Additional information, including documents entitled "Mathematics in CryptoClub" and "CryptoClub Connections to CCSSM" can be found on the project website, <http://www.math.uic.edu/CryptoClubProject/>.

Is your organization interested in taking part in CryptoClub?

Below are the requirements for implementing a CryptoClub program.

- Attend 3 one-day training sessions hosted by the PA STEM Girls Collaborative Project (we will send out a Doodle Poll to determine the best days/times for training)
- Support a minimum of 10 middle-grade students during the 2017-2018 academic year
- Provide a CryptoClub Cipher Handbook for each student (the cost is \$12 per book – there may be funding available for groups who cannot afford books)
- Participate in evaluation activities
- Provide computers with Internet service for at least a quarter of the sessions

How do I apply?

If your organization is interested in implementing a CryptoClub program please email the PA STEM Girls Collaborative Project Lead Contact, Lisa Kovalchick at kovalchick@calu.edu.