

CryptoClub
Monthly Community Call



October 17, 2018

NATIONAL GIRLS COLLABORATIVE PROJECT

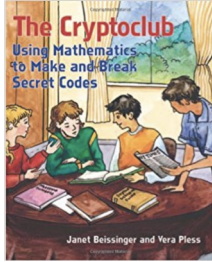
Girls Collaborative Project
Afterschool Alliance
AccessSTEM
SciGirls
SOUTHWEST COUNSELOR EDUCATION
Google
Student Research

CryptoClub Cohorts 1 & 2

CA Sara	Sammy	DC Bonnie	Vic	FL Pam	Girls Inc. Jennie	Cherice	ID Cindy	Crispin
IA Mandy	Kevin	IN Deb	Dakota	MI Carla	Sandra	MT Georgia	Frederick	
NE Christi	Timothy	NY Carla	Lorena	ON Christie	Brandi	OR Colin	Rachel	
PA Laura	Lisa	WA Cindy	April	WA Lane	Casi	WV Autumn	Sherry	

Agenda

- Welcome/Check-in
- Report from Hubsites
- Conference Stipends
- Highlights from Year 2 Annual Report
- VLC Resources
- Questions/Discussion




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Girls Collaborative Project

Hubsite Updates

- Trainings
 - What went well?
 - Plans for follow up
 - Piece of advice
- Recruitment and Planning
 - Upcoming trainings
 - Audience



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Conference Stipends

The Cryptoclub
MIDDLE-GRADE CRYPTOGRAPHY & MATHEMATICS

Home About For Teachers Curriculum Events CryptoClub.org



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Girls Collaborative Project

Evaluation Update

Evaluation Report Summary – Year 2

Data Collection:

Interviews	Surveys
• Hubsites (cohort 1)	• Post training (cohort 2)
• Project team	• Club leaders
	• Youth

EDC Education Development Center

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Evaluation Update

Outcomes-based Evaluation – Youth

- Students joined to learn about cryptography, liked cryptography, or were interested in the topic
- Students gave *CryptoClub* high marks: 70% gave it an "A" and 20% gave it a "B"
- Nearly all students agreed or strongly agreed that cryptography is fun
- Over half of students indicated that cryptography helped improve their math skills

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Evaluation Update

Figure 3. Youth were most likely to **agree** or **strongly agree** that they like doing the math they used in *CryptoClub*.

Statement	Strongly Disagree	Disagree	Agree	Strongly Agree
I like doing the math we used in <i>CryptoClub</i> .	5%	53%	36%	8%
I understand how cryptography uses math.	12%	44%	44%	8%
Doing cryptography helped me better understand math concepts.	22%	39%	33%	72%
Doing cryptography helped me improve my math skills.	22%	32%	30%	63%
Doing cryptography helped me feel more confident doing math.	26%	30%	30%	62%

Source: Student Post-Surveys (n = 66)

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Evaluation Update

Outcomes-based Evaluation – Club Leaders

- All club leaders thought the training prepared them to implement *CryptoClub*
- Club leaders increased in their level of knowledge about cryptography after their training

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Evaluation Update

Figure 7. Hubsite leaders indicated higher levels of knowledge, skills and confidence after the *CryptoClub* training. Numbers represent mean scores on a scale from 1 = Strongly Disagree thru 5 = Strongly Agree

Statement	Before Training (Mean Score)	After Training (Mean Score)
Knowledge of cryptography concepts	1.6	3.7
My skills in encrypting and decrypting messages	1.6	3.7
My skills in cracking messages	1.6	3.7
Confidence in my ability to implement <i>CryptoClub</i> trainings in my hubsite	2.2	3.7

Source: Hubsite Trainer Post-Surveys (n = 16)

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Evaluation Update

Broad Implementation Evaluation

- Training models: different models to accommodate teachers' schedules
- Educators have been very engaged with the curriculum
- CryptoClub* has been accessible to all educators, including those without a math background, due to the support of the training materials and support of their colleagues


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Questions & Discussion

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Next Community Meeting

November 18, 2018
10:00am Pacific | 12:00pm Central | 1:00pm Eastern

HOMEWORK
Create a slide

- Pictures
- Success
- Challenge
- What's next



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