



**NGCP National Webinar
CryptoClub: Exploring Mathematics in a Playful and Engaging
Way
Chat Transcript, May 21, 2020**

Recording: <http://connectpro35337274.adobeconnect.com/p69ke4d5mp32>

Casi Herrera: Welcome everyone. Please introduce yourself in the chat box. Let us know your name, organization, and where you're calling in from. and answer poll questions.

Casi Herrera: Without telling everyone the answer to the riddle, please let us know if you solved it or if you're feeling stumped, in the poll -->

Kathy - Socorro Public Library: Kathy Spring from the Socorro Public Library, Socorro, NM

Kristina C: Public Librarian

Holly Hudson: Holly from the Terre haute Children's Museum

Sandy Janosik: Sandy from the Hunterdon Public Library New Jersey

Amanda Pegg-Wheat: I am a children's librarian running STEM programs for a wide range of ages at the Thomas Crane Public Library in Quincy, MA

Iolani Connolly: Lani Connolly, University of Texas Science and Engineering Education Center (K-12 outreach)

Sandy Janosik: Hey Holly I was born in Indiana :)

Christy Gooch: Middle School STEM Teacher

Jessica Wexler: I run a program called Girls Rock Math and we do summer camps and enrichment in Seattle

Stephanie Rayome: Hi! I'm Stephanie, a Youth Services Provider with St. Louis Public Library

Kassidy Edwards: I am from the Boys and Girls Club of North Central Massachusetts (Fitchburg and Leominster) in Leominster Massachusetts

John Cronin: John STEAM wilmington De

Deb Brandt: DebHomeschool

Holly Hudson: Program Manager at a children's museum

Tom Jensen: Tom Jensen - Ephrata Public Library - Program Manager

Danielle Johnson: Children's Librarian

Karin Rezendes: Youth Services Manager at Manheim Township Public Library

Lydia Katzel: Lydia - Children's librarian public library in Seattle WA

Karlynda Poage: Karlynda Poage, University of Texas at Dallas Science and Engineering Education Center (K-12 outreach); Dallas, TX

Meg Draeger: Meg Draeger, CJ STEM Coordinator, Dayton, Ohio

Matthew Cross: Matt, Library Tech from the Ak-Chin Indian Community Library in Maricopa Arizona. I run the coding and robotics programming.

Dia St. John: STEM Program Coordinator at Girls Inc of Metro Denver

Molly Moore: I am an education and enrichment library for child/youth at Spokane County Library District in Spokane WA

Clint Darr: Missouri Afterschool Network

Jesse Cardenas: Boys & Girls Clubs of Metro Denver

Syreeta Brown: Hi! I'm Syreeta Brown I work for GEAR UP Chicago as a STEM program director. Happy to be here

Cheryl Moran: Cheryl Moan: UChicago STEM Education

Lori B: Hi Everyone, I'm Lori, Creative Arts Manager at Imagine Childrens Museum, Everett WA

Julie Bayard: I work for Big Brothers Big Sisters of Southwest Idaho and I coordinate the Women in STEM program.

Adrienne Provenzano: Informal educator, NASA Solar System Ambassador, Indiana

Marta Larson: Michigan After-School Partnership, MI Collaborative Lead

Monika Kiss: Hi Everyone! I am a Professor of Mathematics

Kathy Thomas: Hi All! Kathy here from The Connectory calling in from Seattle.

Monika Kiss: I also run the Saint Leo Math Circle and Summer Camps

Katie Johnson: Hi everyone! I'm Katie Johnson from Florida Gulf Coast University in Ft Myers, FL

Casi Herrera: Welcome everyone! Please feel free to type any questions for the presenters in the chat!

Kathy Thomas: NGCP website: <https://ngcproject.org>

Vickie Blanchet: Hi! I work with the 4-H Tech Wizards National Mentoring Program in Pend Oreille County, Washington State.

John Cronin: @Monika, St Leo in Tampa? My brother teaches psych there

Monika Kiss: Hi John!

Monika Kiss: Yes, Chris is my colleague!

John Cronin: small world

Monika Kiss: yes :)

Casi Herrera: The Connectory: <https://theconnectory.org>

Marilyn Riddle: Hello, I have been retired from the hs math classroom for 20 years but I have two granddaughters aged 8 and 12. We are all in VA, Williamsburg and Charlottesville.

Casi Herrera: FabFems: <https://www.fabfems.org/>

Kate Etheredge: I am a teen librarian (and responsible for most STEM programs for middle grades and teens) in Birmingham, AL

Cheri: I'm curriculum coordinator for AAUW Tech Trek NM.

Katie Johnson: I'm a math professor and I also help run a weekend STEM program for middle school girls.

Sarah Wray: Hi all! I'm Sarah Wray, education coordinator and college access support. I work for Virginia Tech at an off site campus, Reynolds Homestead!

Meg Draeger: I am in Ohio. Although your map shows an active collaborative in my state, I don't find such, from the website. Please advise.

Meg Draeger: Thank you.

Marilyn Riddle: Check with NCTM and they might contribute. They are celebrating their 100th birthday!

Alex Byrne: Good morning! (At least for me.) I'm a Youth Services Librarian in Pierce County, Washington, and I fear I've missed the poll and the cryptogram, but that's all right.

cynthia brez: Hi! Cynthia Brezteacher from Shine afterschool STEM program in PA

Laura Martinez: Hello from New Mexico State University! check our website out for free STEM resources: <https://stem.nmsu.edu> and happy to be here!

Marjorie Bowers-Stanley: Hello, I'm an Instructional Technology Resource Teacher in Halifax, VA

Tom Jensen: uh oh

Mary Beth Mulligan: Hi all, I am the Makerspace Coordinator for the Metuchen Public Library in Metuchen NJ

Crystal Morton: Crystal Morton, Girls STEM Institute at IU-Indianapolis

Laura Batt: Laura Batt from Sea Research Foundation/Mystic Aquarium and the STEM Mentoring program

Rosa A: I am Rosa Aristy coordinator for the Katy Math Circle in Texas

Sethanne Howard: Hello Sethanne Howard, astronomer, retired

Meg Draeger: Go Illini!!I'm an alum from UIUC

Catherine Burgess: Hi from Leominster MA

Karen Peterson: @Meg - I'll get in touch with you re Ohio. We need you!

Karen Peterson: Feel free to ask questions here in the chat. We have muted all attendees due to the large number of participants.

Kassidy Edwards: Miss Burgess! Its Kassidy!!!

Meg Draeger: I'm game!Thank you.

Casi Herrera: CryptoClub Website: <https://www.cryptoclub.org/>

Meg Draeger: MathCounts is fairly popular in our state. It is certainly a different type of program than CryptoClub, but I perceive that they could complement each other?Any thoughts on that?

Kristina C: Same for Crazy 8s math Club

Kassidy Edwards: Is there a certain target age that these activities are academically appropriate for?

Casi Herrera: CryptoClub Resources: <https://cryptoclubproject.uchicago.edu/>

Kassidy Edwards: Just a thought, a good cryptography themed movie for older students is The Imitation Game

Karen Peterson: Kassidy - yes!Please keep sharing resources here in the chat - so helpful for all!

graciela: Graciela Perera, Co-lead North Region for CAHSI NSF INCLUDES Alliance

Meg Draeger: Any CryptoClub partnerships with SWE or Girl Scouts?

Angela D: what platform will you use to make and distribute badges?

Pam Hillestad: MathCounts and CryptoClub totally complement each other!

Kassidy Edwards: In high school I was in a trade - electrical engineering - and we watched that movie senior year. We all enjoyed it, and it definitely gave a cool look at cryptography. We did not have time to do it, but we were planning on doing a cryptography based computer programming project! That movie is still one of my favorites!

Casi Herrera: @Meg, some of our hubsites have trained Girl Scout troupe leaders.

Marilyn Riddle: What hub is nearest Southeast VA?I am having a hard time keeping up!

Meg Draeger: At our high school, I have found an increasing number of high school students expressing interest in pursuing math majors in college, which, in my mind, is exciting and encouraging. I could well envision an implementation of CryptoClub in which the high school students "lead" middle school students.

Pam Hillestad: That's a great idea Meg!

Casi Herrera: @Meg - such a great idea. This model would be super exciting to see in practice.

Sarah Wray: Marilyn, I'm in Southwest VA, wondering the same thing!

Meg Draeger: Some grants would lend themselves well for educators to implement this, such as AFA, AIAA, Toshiba, and ASEE

Marilyn Riddle: Sarah, where in SW?Son in Floyd with two sons

Kassidy Edwards: Are there different levels of the program for different age groups? For example, is there a section catered towards elementary school, and an entirely different one catered towards middle school? Or does it all go together and just increase difficulty over time?

Sarah Wray: wow! Floyd is our neighbor - I'm in Patrick County!

Lisa Kovalchick, PA: @Marilyn and @Sarah Wraythere is a hubsite in NC

Iolani Connolly: we have an informal program that we facilitate through public libraries- is it possible to access the materials on line (on your own) or is it only avail through a facilitated learning activity?

Casi Herrera: @Sarah - the closest hubsite we have to you in in North Carolina. Moving forward, there will be other ways to participate in the future.

Meg Draeger: In Ohio, our local Wright-Patterson Air Force Base's Educational Outreach Office might be interested in partnering with you to serve as some kind of hub. Or the Ohio STEM Learning Network/Battelle Education here in Ohio, which centralizes a few other programs such as the Army's eCyberMission program.

Marilyn Riddle: Lisa, in Research Triangle or Charlotte?

Casi Herrera: Janet's email: beissinger@uchicago.edu

Marta Larson: Would you please send out the slide with contact information, it went by too fast to copy the information.

Meg Draeger: What are the costs for those necessary materials?

Casi Herrera: Not a problem! You can contact Janet at beissinger@uchicago.edu. We will also be posting the PowerPoint and link to the recorded webinar on NGCP's website tomorrow. We will also send it out to all registered participants.

Rosa A: The sound is erratic on and off

Karen Peterson: Sorry Rosa - internet can be challenging these days!

Casi Herrera: @Rosa - seems like there may have been a little bump in the audio. But i think it's back to normal now. For you, too?

Marilyn Riddle: Audio gone again

Juan: Are there any trainings for CryptoClub program on the West coast? Maybe like up Oregon way? Seems silly to ask, I suppose, now that most trainings are virtual.

John Cronin: audio?

Vickie Blanchet: no audio

Amy Hiet: Are there trainings in Maryland or current virtual trainings available?

Kassidy Edwards: @ the presenters: It might be good to look into implementing within Boys and Girls clubs nationwide

Janet Beissinger: REplying to the question about cost: The main cost for the program is the StudentHandbook. That can be ordered from Kendall Hunt for \$15. The Leader Manual is \$39

Karlynda Poage: Who can we chat with in more detail to get information on how it is implemented with libraries?

Juan: @Kassidy. Agreed. I am also at a BGC.

Marilyn Riddle: Public libraries or public school libraries?

Karlynda Poage: Public libraries

Cyberly Erni: Public School Libraries

Casi Herrera: @Karlynda - one of our Hubsite Leads hosted clubs in libraries fairly regularly. I would be happy to connect you to them (they aren't on the webinar today)

Kassidy Edwards: @Juan where are you? Myself and my coworker Cathy, who is on here, are from BGC North Central Massachusetts, aka BGCFL Boys and Girls Club of Fitchburg and Leominster

shirelle atkins: I'm with Fulton County Library System in I'm interested

shirelle atkins: In Georgia

Cyberly Erni: @Casi - Public school small district in Utah

Sandy Janosik: I'm in a library in NJ - interested for online!

Kassidy Edwards: Where did all of the chat messages go?

Karen Peterson: Cassidy - the system was getting overloaded. We have saved the chat and will distribute to all.

Kassidy Edwards: @Juan what club are you at? Myself and my coworker Cathy who is also present are at the Boys and Girls Club of Fitchburg and Leominster (Boys and girls Club of North Central Massachusetts) in Leominster, MA

Juan: I am at a BGC in central Oregon.

Meg Draeger: Does the program lend itself to teamwork, or do groups approach it more as individual students working on their crypto puzzles, and in their own handbooks?

Kassidy Edwards: Oh cool! Is your club open right now? We are doing virtual programs.

Casi Herrera: @Meg - there are really opportunities for both working collaboratively and independently.

Kassidy Edwards: What is the youngest grade this program has been used with?

Juan: We are completely virtual, but planning on re-opening in mid-June to a very limited amount of youth.

Kassidy Edwards: We are currently trying to work out the logistics of our annual summer program.

Lisa Kovalchick, PA: @Kassidy - our trainers have used it with kids as young as 1st. Of course, you need to keep the ciphers pretty simple for them.

Meg Draeger: Are there career connections included in the curriculum?

Kassidy Edwards: @ Meg I wonder if there are any connecting programs on NEPRIS? My club is currently using that program as a resource and it has many different industry chats, etc.

Cyberly Erni: I utilize BreakoutEDU quite often. CryptoClub seems to be a more focused and developed opportunity. Thanks.

Meg Draeger: SIAM and "Math Matters! Apply It!" resources would relate, too.

Pam Hillestad: I personally have used it with 2nd graders as the youngest.

Janet Beissinger: Meg: No, there aren't career connections specifically included in the curriculum.

shirelle atkins: Will there be training in Atlanta Georgia area?

Casi Herrera: @Meg, some of our Hubsite leads and educators have connected with FebFems as an extension to the programming.

Casi Herrera: FabFems: <https://www.fabfems.org/>

Casi Herrera: @Shirelle - we don't have a Hubsire in Georgia, but there will be some virtual professional development opportunities in the near future.

shirelle atkins: Great !!!

Adrienne Provenzano: Role models close in age to students matters a lot!

Karen Peterson: Adrienne - so true!

Meg Draeger: I think the Crazy 8s Math Club program has one Cryptography activity

Adrienne Provenzano: Thank you everyone! I was unaware of this program!

Rosa A: Is there a way I could incorporate this in my math circle

Rosa A: ?

Marilyn Riddle: Thanks so much!

John Cronin: @Monika, nice meeting you again. Chris said you emailed

Vickie Blanchet: I will use this in our Jr. Tech Wizards program and in our summer camp program.

Sarah Wray: love the idea of creating opportunities using this curriculum in Summer camps, field trips, and afterschool programs!

Molly Moore: so is the cost of implementing a cyrptoclub program simple the training and books or do you have to subscribe to the website? are there ongoing costs or fees?

John Cronin: thank you to the presenters. I did learn quite a bit

Monika Kiss: Nice to meet you John Cronin as well!

graciela: Thank you so much it looks like something fun for girls to do

Meg Draeger: This has been a great very informative webinar. Thank you. I'd be interested in learning more when you announce the summer pilot online PD opportunity. I would like to pilot the program in the fall in one form or another.

Nicole Rife: We did a code breaking and writing activity in a summer camp last year and the kids loved it. I can see us offering a full day of crypto for future camps. This would also be great for our middle school afterschool program.

Matthew Cross: I'm currently figuring out how to impliment Ceaser and additive cipers into our Scratch programming classes.

Monika Kiss: @Rosa I use it in my math circle and it is fun

Monika Kiss: The kids love it.

graciela: I am in Chicago and teach cybersecurity in Northeastern Illinois University. Would love to serve as a mentor if you see fit

Casi Herrera: Student book costs: \$15

Katie: Was this webinar recorded so I can relisten again later?

Karen Peterson: Yes, Katie

Karen Peterson: You'll receive a link to the recording, slides, and chat transcript.

Catherine Burgess: Great presentation. . . thank you!

Molly Moore: Thanks!

graciela: Could we have access to the meeting recording?

Lisa Kovalchick, PA: There is no cost for the use of the website.

Lydia Katzel: so will there be online training during this COVID-19 season?

Sarah Wray: Where do we locate information on hubsites

Rosa A: what will the cost be for the online training?

Holly Hudson: Do you have to go through the training to utilize the resources?

Casi Herrera: Teacher Website: <https://cryptoclubproject.uchicago.edu/>

Lorena Harris: feel free to email if you have questions

Lorena Harris: harrislb@sunysccc.edu

Janet Beissinger: beissinger@uchicago.edu

Pam Hillestad: phillestad@glazermuseum.org

Katie: Even though it is full, will the recorded webinar be posted?

Katie: Yay! Perfect :)

Johnna Tselides: Thank you so much!

Janet Beissinger: @Holly. No, you do not need to go through training. The leader Manual stands alone.

graciela: Thank you!!!

Rosa A: Thank you :)

Monika Kiss: Thank you!

Sheryl Arriola: Thank you!