

Girls Who Code – 4th Meeting 9-19-16

Go to our website to see the meeting notes and curriculum links: www.unit5.org/gwc

- Access the curriculum on our website or at <https://girlswhocode.instructure.com/login/canvas>

If you haven't already done so:

- Take the Clubs Pre-Test
 - Club Site Name: Normal Community West High School
 - Club Site Number: C-000003797
- After you have taken the Pre-Test, choose a Core4 Activity that interests you and matches your experience level and work on coding today.

***next meeting is Mon Sept 26 from 3:30-4:30 PM in Room 208**

About the Core4

Computer science is a rapidly changing field, and the list of programming languages that engineers use is always evolving. Still, there are a few logical problem-solving concepts that are the building blocks of nearly all programming languages. Girls Who Code calls these ideas the Core4: **variables, loops, conditionals** and **functions**.

These Core4 concepts can be combined to solve many kinds of problems, whether you're building a game, making music, or creating digital art. Below, we offer several Activity Sets that will help you learn the Core4 concepts and apply them to whatever you want to build.

Remember:

- If you get stuck - **that's ok!** This is meant to be challenging. Ask other girls, try Googling it, or pull in your Facilitator for help.
- Choose your prompts based on a **topic** you like, a **language** you're interested in learning, or the level of **challenge** you want to take on. There is no wrong choice!

If you are mostly new to computer science, we recommend that you start with the **Fashion in Scratch** Core4 Activity Set. Once you are done, explore a second Activity Set based on your interests!

Core4 Activity Set	Description	Details
Fashion in Scratch Difficulty: 🟡	You will learn how to use Core4 CS Concepts to animate and dress your favorite characters. Try this if you like... <ul style="list-style-type: none">→ Imagining outfits and patterns.→ Drawing.	Language: Block-Based Recommended Experience: None needed!
Storytelling in Codesters Difficulty: 🟡	You will learn how to use Core4 CS Concepts to create an illustrated story. Try this if you like... <ul style="list-style-type: none">→ Creative writing.	Language: Drag-and-drop Python Recommended Experience: None needed!
Game Development in Actimator Difficulty: 🟡🟡	You will learn how to use Core4 CS Concepts to quickly create sharable games. Actimator's built-in physics engine will help you quickly make your game interactive. Try this if you like... <ul style="list-style-type: none">→ Mobile games.→ Physics.	Language: Block-Based Recommended Experience: None needed!
Digital Art in Khan Academy Difficulty: 🟡🟡🟡	You will learn to use the Core4 CS Concepts to create digital pictures and interactive art. Try this if you like... <ul style="list-style-type: none">→ Drawing.	Language: JavaScript Recommended Experience: None needed!
Music in EarSketch Difficulty: 🟡🟡🟡	You will learn to use the Core4 CS Concepts to create your own beats and songs. Try this if you like... <ul style="list-style-type: none">→ Making music in GarageBand.	Language: Python or JavaScript Recommended Experience: None needed!

Upcoming Events

September 20 – So Chic Boutique in Morton, leave at 5PM, return at 8PM

CALLING ALL HIGH SCHOOL GIRLS!! Join us at the #GoodCompanyGreatGirls Open House at So Chic Boutique this coming Tuesday from 5:30p-7:30p where you can hear from local women business leaders about their success, their struggles, how they got where they are now and how they can help you become Great Girls!!

Throughout the entire day, shoppers and attendees are invited to cast a ballot for a local non-profit that helps girls be their best to win 10% of the proceeds from that day! We are one of 5 groups that are on the ballot!

September 21 – in the atrium during lunch

Joel Johnson from the Black Data Processing Associates (BDPA) will talk about the High School Computer Competition. Please stop and learn more from him. This is open to all students, not just minority students.

September 29 – in Room 150A during lunch periods, School Clubs Fair

- We need 1-3 people to represent our club each lunch hour.
 - Before you go get your lunch, come to room 150A to drop off your backpack.
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October 1 – 9AM-12:30PM at Stevenson Elementary School, Volunteer at the Seussical STEAM Event

Science, Technology, Engineering, Art and Mathematic (STEAM) activities that encourage children's natural curiosities about the world around them will be featured. Lunch is provided for volunteers.

October 1 – 5:30-9PM at ISU, Women in STEM Gala

The Bloomington-Normal Economic Development Council (EDC) is pleased to host this first annual event - celebrating the brilliant, innovative minds of our present and future female trailblazers in Science, Technology, Engineering, and Mathematics (STEM). This not-for-profit, formal dinner event is open to the public. Our guests of honor include high school, college, and professional females as well as our Keynote Speaker, Michelle Conger, Senior Strategy Officer at OSF. The evening will end with an award ceremony where our guests of honor will be recognized for their achievements in STEM fields.

October 2 – 1-3PM at the Normal Theater

Big Dream is a documentary that follows the intimate stories of seven young women who are breaking barriers and overcoming personal challenges to follow their passion in science, math, computing & engineering. From small town Iowa to the bustling streets of the Middle East, Big Dream immerses viewers in a world designed by and for the inspiring next generation of girls. The film will be of interest to young women, families, and anyone interested in STEM (Science, Technology, Engineering, Mathematics) education. All attendees are invited to take part in a panel discussion with recognized women in the STEM fields immediately following the film at the Normal Theater. Microsoft has underwritten and co-produced the documentary, which is directed by Kelly Cox and co-produced by Iron Way Films. For more information about the film and the Big Dream Movement, please go to www.bigdreammovement.com. NR / 90 min.

<https://vimeo.com/116117189>

December 1 – from 6-8PM at Normal West, Girls Who Code K-8 Night

- We need people to help plan the event and make a video for the SCORE grant application (due Sept 26).
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Scholarship/Other Opportunities

- **The NCWIT Award for Aspirations in Computing (AiC)** honors high school women who are active and interested in computing and technology, and encourages them to pursue their passions. Deadline to apply is November 7. <https://www.aspirations.org/participate/high-school>
- The BACC, in conjunction with OpenSource Classroom, is offering a student training experience (called the **3D Experience**) for up to 24 high school students to receive training in 3D Printing, 3D Design, and circuitry. See the flyer for more details. Deadline to apply is September 23. You can apply at 3d-x.org
- There's still time to get your application in for the **#GoodCompanyGreatGirls \$1000 scholarship** presented by Green Ford!! Head to: <http://www.cinewsnow.com/features/good-company-great-girls> to fill out an application today! Applications must be submitted by 5PM on Fri Sept 30.
- The **Women to Women Giving Circle's grant** focus is programs that seek to inspire and empower girls and young women to achieve their highest potential. We are writing a grant for a Makerspace for Girls Who Code.
 - We need volunteers to meet with representatives from the organization, ask clarifying questions, draft the application, etc. Our meetings would entail: putting together a project plan; meeting with the Illinois Prairie Community Foundation to gather information; meeting to check our progress; and meeting to wrap things up. We can also set up a Google Doc to help us organize our thoughts. You can learn valuable skills like marketing, writing, and project management!