NEXT LEVEL! Coder's Club

McCracken County Public Library

Children

Tweens (10-12)

Teens

NEXT LEVEL! Coder's Club

Sep 21, 2018

Free

Your name

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With funding through ALA's <u>Libraries Ready to Code</u>, we collaborated with a community makerspace and the local Boys & Girls Club to offer coding programs at three locations.

In addition to the Boys & Girls Club and the community makerspace, we also held programs at the library. Participating students ranged from third grade through high school.

Advanced Planning

Our goal for these Next Level Coder's Club is for youth to learn coding skills and computational thinking principles, practice problem solving, and enjoy a collaborative learning space with peers.

We began planning a couple of months ahead of time and conducted interest surveys in conjunction with community focus groups that were being held at the time. We developed a survey about computer science skills, activities and interest level for students at a local high school and at the Boys & Girls club.

We worked closely with our community partner, the Boys & Girls Club, to plan the first coding club, which we held onsite there, as the technology needed for the club was already in place at the facility.

Marketing

Holding the club at the Boys & Girls Club required local recruitment inside the club. We visited the afterschool center twice before the Next Level Coder's Club started to speak to prospective students and to recruit. We were only moderately successful, having between 3 and 10 students each week, when our goal had been 10 to 15.

For our coding club at the community makerspace, we advertised through the library website and social media and through in-house marketing. Our community partners at the makerspace also advertised through their marketing channels. We were successful, having 10 to 15 students each week, closer to our goal of 15.

For our in-house clubs over the summer, we opened up to a younger audience and advertised in-house and online through the library website and social media. The summer coding club for kids (recommended for grades 3 through 5) was a big success, with 14 to 18 students each week (maximum was 18). The summer coding club for teens was not as well attended, with eight or fewer students each week, but we did get a lot of positive feedback from the families of the teens that attended.

Budgeting

The costs involved with running a coding club are mainly in the necessary technology/internet access and staff time. If you have the available technology (laptops, a computer lab, or tablets and internet access) and staff dedicated to programming, there are many free resources available online.

As a part of the <u>ALA Ready to Code Phase III Cohort</u>, I helped to develop content for the Ready to Code toolkit, <u>now available in Beta form</u>. For our clubs we have used free activities from <u>Google's CS First</u>, <u>Mozilla's Thimble</u> and <u>Hour of Code</u>. We primarily used our grant funds to purchase a set of Chromebooks for programming and to allow for additional staff time for planning and programming.

Day-of-event Activity

We used Chromebooks for most of our coding activities. I used a projector and makeshift screen (white paper taped to the wall at one location, a dry-erase board at another) so that students could watch and follow along. I really needed a half hour to set this up, but this was not always possible, as at the busy Boys & Girls Club, the room I was in was sometimes in use right up to the time coding club began.

We also had trouble with poor WiFi signal/ no access for the first couple of classes. I learned to always have a backup plan! There are suggested "unplugged" coding activities at <u>Google's CS First website</u> and at <u>Hour of Code</u>.

Program Execution

We have met our goal of teaching coding skills and computational teaching principles within a collaborative learning environment. Our 10-week coding clubs at our community partner spaces included learning surveys at the beginning and end. We saw a trend of more positive view of computer science in general and of interest in computer science careers.

Advice

Look at the <u>ALA toolkit</u> for inspiration, write for grants and go out into the community.

Supporting Materials

Download this Program as a PDF

- Feedback (Coming Soon!)
- Programming Librarian Facebook Group

Slideshow Images



Image



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7 Adventurous Summer Programs

Audiences:

Audience

Children (9 and under) Young Adult (17 - 20) Nov 28, 2016

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'Un-tech' Methods Help Library Teach Coding to Kids

Audiences:

Apr 4, 2017 Children (9 and under)+ | \$\$ Image



Robot Story Time: Coding for Preschoolers

Audiences:

Audience Children (9 and under) Jul 5, 2018 Teens (13-16)+ | \$ <u>Image</u>



BrainSTEM Camp

Audiences:

Teens (13-16)