What's Happening at Reedy Creek...
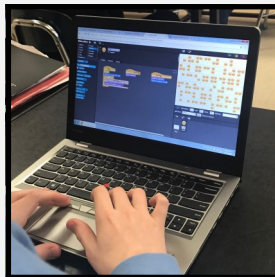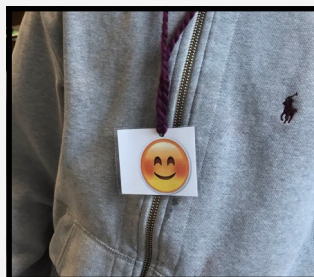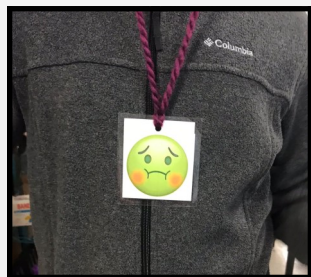
Here are a few of the exciting things taking place at Reedy Creek Center for the Digital Sciences. These programs, along with our partnerships with community organizations and businesses, bring unique opportunities to our students. Stay tuned: There is much more to come!

Coding and Computational Thinking in Science

Our partners from **NC State University Center for Educational Informatics** work on a coding project with our 8th grade Science classes during their study of epidemics. The unit starts with an "unplugged" activity where students interact with each other while wearing either healthy or sick emojis. Later, Ms. Abernathy, Ms. Dioguardi, and the NCSU team guide students as they use block-based programming to simulate the interactions of healthy and infected agents and to track the results. To create a simulation, students program using conditional statements and loops, and then analyze data upon completion of their project.
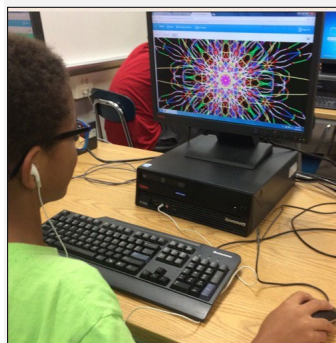
The IT & Beyond Project with Deutsche Bank

Deutsche Bank's Global Technology division is giving some Reedy Creek students a unique opportunity to peek inside and participate in the life cycle of software development with the aid of their developers.

Working with representatives from Deutsche Bank, our teams of students are assigned a project and project manager. They work through the planning, designing, and testing processes with guidance along the way and feedback from Deutsche on their final presentations. This is a great way for students to learn and practice real-world skills with professionals in our community.

Programming Club

RCMMS offers a unique Programming Club where members use the visual programming language Bavel Blocks to create online games. Within Bavel's colorful, fun, user-friendly programming environment, club members bring technology to life while learning the basics of JavaScript code.
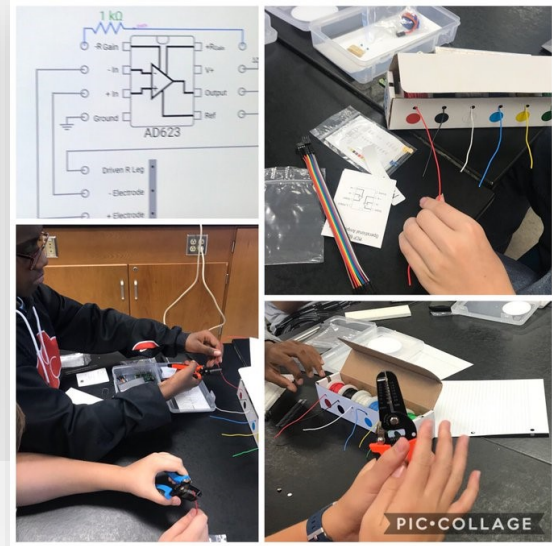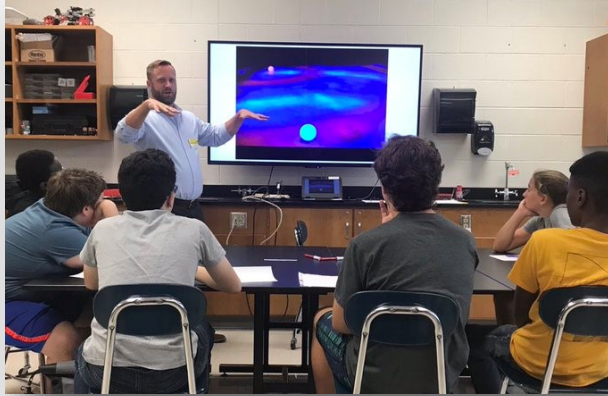
Girls Who Code

In Partnership with IBM, Reedy Creek offers a Girls Who Code club. Girls Who Code is a club that works to inspire, educate, and equip girls with the computing skills to pursue 21st century opportunities. Girls identify a problem they want to solve using technology, and then they create a solution with their group and the IBM coaches. Last year's group coded a Test Prep Chatbot to help all students prepare for End-of-Grade testing. Way to go, girls!

Reedy Creek Magnet Middle School Center for the Digital Sciences, 930 Reedy Creek Rd., Cary, NC 27513

More of What's Happening at Reedy Creek...

Business Partnerships and Bio-robotics in Mechatronics 3

Our partners from **Dude Solutions** visited our Mechatronics level 3 students to conduct a two-week bio-robotics workshop where students learned to create their own, working EKG device. Throughout the project they learned about career links for each stage of the process including Biomedical, Computer, Electrical, and Software Engineering.

Peer Programming at the Center for the Digital Sciences

Through professional learning opportunities with the **Friday Institute for Educational Innovation at NCSU**, Reedy Creek teachers have learned about peer programming. When peer programming is taking place, one person acts like a GPS and "navigates" by explaining action steps and giving directions, while the other person "drives" by moving code blocks and modifying or writing programming code. An important key to peer programming is taking turns. Each person in the pair should have a chance to direct and to drive. Teachers have been sharing this with our students, who are proving to be excellent peer programmers in class!