

TECH SAVVY WORKSHOPS FOR GIRLS

Build a Chair - Engineering Everyday Materials into Real-World Solutions

Girls will be able to design a chair to hold at least one member's body weight with only newspaper and tape using the Engineering Design process. Girls will also discuss at least three ways that engineering cost effective materials into innovative designs can impact the world.

College Savvy

Girls will have a fun opportunity to "visit" and "interview" with local college representatives. They will complete a college application, identify their strengths and explore STEM options.

DNA: The Blueprint for Life

Girls will discuss what DNA is, why it is important, and how medical research is using DNA to understand diseases such as cancer. In addition, the girls will participate in a hands-on activity in which they will extract DNA from the cells of strawberries.

Forensic Science Black Box

Girls will have the opportunity to identify, collect, and process multiple types of evidence from a mock crime scene. They will work in teams to process evidence including bloodstain patterns, fingerprints, DNA, insects, and ink chromatography.

Lab on Wheels: Using Science and Engineering to Protect Our Nation

Girls will participate in a short acid, bases, and pH experiment with real world implications. Girls will discuss what a Civil Support Team does, some of the STEM related jobs associated with the team, and have a tour of the Lab on Wheels.

Robotics Style – Conveying Messages

Working in teams, the girls will explore different ways an open platform STEMBoT communicates. The girls will then use the BoTs to convey their directions to complete a course.

Twists, Turns, and Surprises with Math

What is mathematics? Where do you find it? You may be in for some surprises. Girls will explore the mathematics connected to the twists and turns of mathematical puzzles and stunts, games and shapes and even doodles. They will also investigate the Golden Ratio patterns found in art, nature, and music.

Wind Turbines: Don't Get Left in the Wind

Girls will have the opportunity to apply the engineering design process by designing and testing their own wind turbines. They will also learn how they can make a future impact on wind turbine technology in a multitude of different engineering career paths.

SAVVY SKILLS WORKSHOPS FOR GIRLS

All About a Bank Account

Girls will learn about bank accounts through an interactive and engaging seminar. Girls will learn about reasons to open a bank account, required documents, different ways to pay, and why it's important to keep a record of transactions and have a positive bank relationship.

Cybersecurity

Girls will learn about opportunities and threats when using the internet – quick research, social networks, downloading, passwords, fraud, and predators. The girls will also learn about safety measures regarding cybersecurity and protection of their computers, cell phones, and how to carefully use social media.

My Awesome Brain: The Many Jobs of the Brain and STEM Women

Girls will learn about how the brain transforms touch into actual feelings in her body, what happens when her eyes get tired, and how to understand the brain with neuroimaging. This workshop focuses on learning several jobs of the brain as well as jobs that women in STEM have that relate to the brain.

You Only Have ONE Body

Girls will participate in two interactive games to recognize the various dimensions of health. Girls will learn some tips and tricks to stay healthy and learn that taking care of herself and her health is the best gift she can give herself.