

FOREST HEIGHTS STEM ACADEMY



INSPIRE. INNOVATE. IGNITE.

5901 Evergreen Drive | Little Rock, AR | (501) 447-2700



ONE OF A KIND CLASSES

Through topics like coding and robotics, flight and space, and DNA and crime scene analysis, middle school students engage their natural curiosity and imagination in creative problem solving. PLTW Gateway is a strong foundation for further STEM learning in high school and beyond, challenging students to solve real-world challenges, such as cleaning oil spills and designing sustainable housing solutions. Using the same advanced software and tools as those used by the world's leading companies, students learn how to apply math, science, technology, and engineering to their everyday lives.

Design & Modeling

Students apply the design process to solve problems and understand the influence of creativity and innovation in their lives. They work in teams to design a playground and furniture, capturing research and ideas in their engineering notebooks. Using Autodesk® design software, students create a virtual image of their designs and produce a portfolio to showcase their innovative solutions.

Automation & Robotics

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics® platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms.

App Creators

Studies show that by 2018, 1.4 million job openings will be available for computer specialists. In this unit, students discover the principles of this fast-growing field by focusing on creativity and an iterative design process as they create their own basic apps using MIT App Inventor.

Medical Detectives

Students play the role of real-life medical detectives as they analyze genetic testing results to diagnose disease and study DNA evidence found at a "crime scene." They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to maintain health.

Flight & Space

The exciting world of aerospace comes alive through Flight and Space. Students explore the science behind aeronautics and use their knowledge to design, build, and test an airfoil. Custom-built simulation software allows students to experience space travel.

Science of Technology

Science impacts the technology of yesterday, today, and the future. Students apply the concepts of physics, chemistry, and nanotechnology to STEM activities and projects, including making ice cream, cleaning up an oil spill, and discovering the properties of nano-materials.

COMPUTER SCIENCE EDUCATION WEEK

SCIENCE FAIR

ENGINEER'S WEEK

MAKER'S FAIRE

MATH MADNESS

PI DAY-3/14

ENVIRONMENTAL EDUCATION WEEK

SPACE CAMP

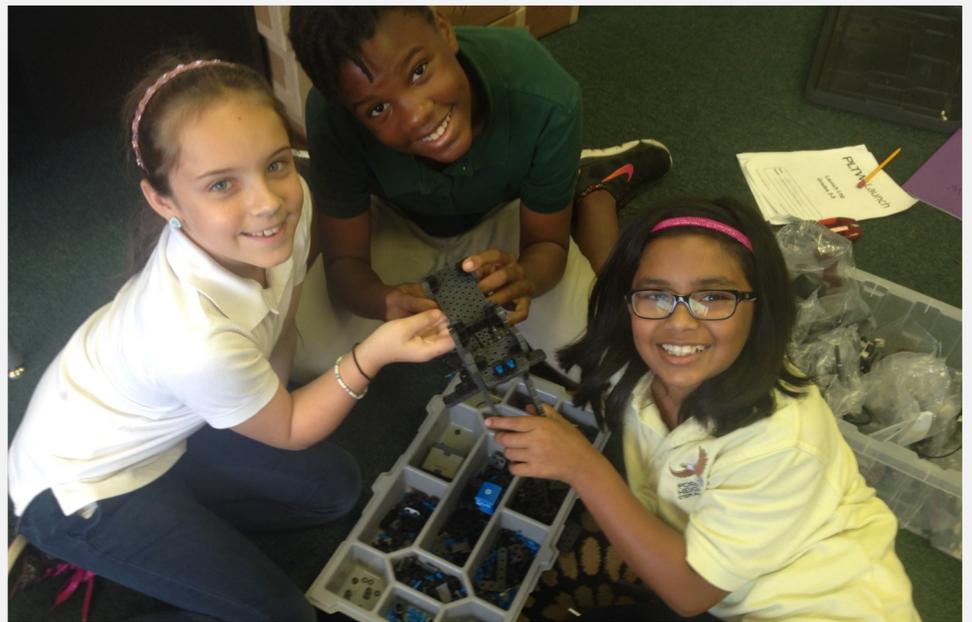


COMPETITIONS

- ⇒ BEST ROBOTICS
- ⇒ CONGRESSIONAL APP CHALLENGE
- ⇒ JUNIOR ENGINEERING
- ⇒ PLASTIC OCEAN POLLUTION SOLUTION
- ⇒ VEX IQ ROBOTICS
- ⇒ VEX ROBOTICS
- ⇒ NLR Maker's Faire
- ⇒ CENTRAL AR SCIENCE AND ENGINEERING FAIR
- ⇒ UAPB SCIENCE FAIR

CLUBS

ART CLUB
BETA CLUB
BOYS WHO BUILD
CHESS CLUB
CODING CLUB
FISHING CLUB
MATH CLUB
NATION JR. HONOR SOCIETY
QUIZBOWL
ROBOTICS CLUB
SCIENCE CLUB
STEMINISTA CLUB
YEARBOOK CLUB



THE K-5 ENGINEERING EXPERIENCE

Engaging students at a young age builds confidence, grows interest, and puts them on course for strong accomplishments in middle school, high school, and beyond.

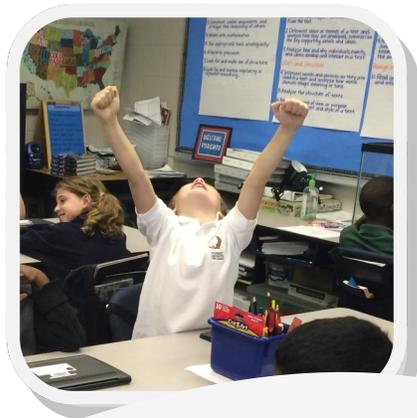
Through **PLTW Launch**, our program for kindergarten through fifth grade, students become problem solvers. Students use structured approaches, like the engineering design process, and employ critical thinking. They apply STEM knowledge, skills, and habits of mind, learning that it is OK to take risks and make mistakes. As teachers and students learn and discover together, education becomes far more engaging.



K-5 students and 6-8 students have separate entrances and lunch times.

School Day
7:40-2:25 (K-5)
7:40-2:40 (6-8)

SPORTS & MORE



ORCHESTRA
BAND
CHOIR
FOOTBALL
BASKETBALL
VOLLEYBALL
TRACK AND FIELD
SOCCER
CHEER
DRILL TEAM
PEP SQUAD
DRAMA



The mission of Forest Heights STEM Academy (FHSA) is to prepare students to compete in our global economy by equipping them with skills that are not confined and isolated within one discipline, but are found between and across the disciplines of science, technology, engineering and math. Students will participate in STEM projects acting as scientists, engineers, and mathematicians as they design and conduct learning projects and then communicate their results.

Visit <http://forestheightsstem.com> for more information. Go Eagles!