



South Charlotte Middle School
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Project Lead the Way

THE PROGRAM:

Middle school is the perfect time for students to explore and learn that there is more than one way to reach a solution. PLTW Gateway provides engineering, biomedical science, and computer science curriculum for middle school students that challenges, inspires, and offers schools variety and flexibility. Students get rigorous and relevant experiences through activity-, project-, and problem-based learning. They use industry-leading technology to solve problems while gaining skills in communication, collaboration, critical-thinking, and creativity.

South Charlotte Middle School is proud to offer *both* foundational units (Design & Modeling and Automation & Robotics) for the 2015-2016 school year!

THE COURSES:

Design & Modeling (6th, 7th, & 8th grade)

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 (8th grade only)

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.

[Watch this video to see what it's all about!](#)

[SIGN UP HERE](#) for PLTW during the 2015-2016 school year!