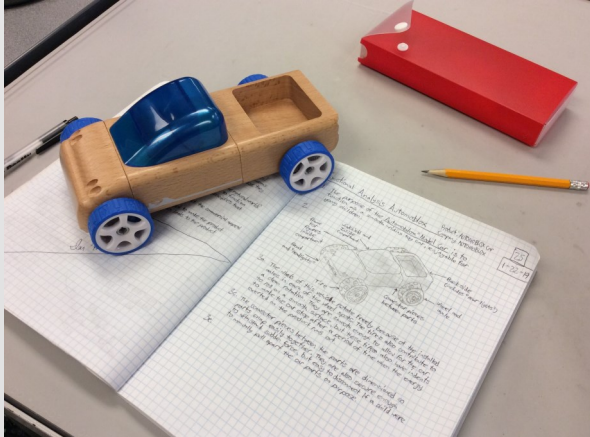
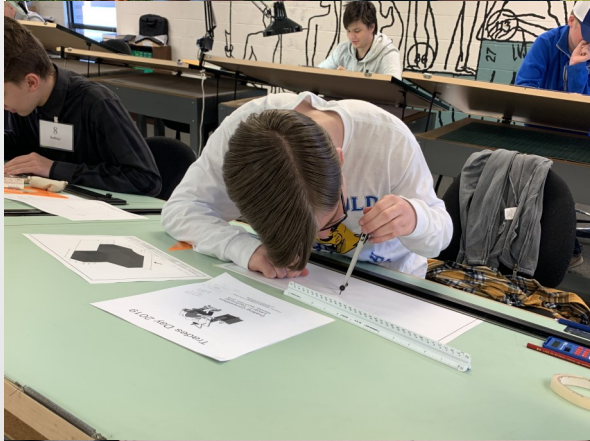




INTERESTED?

SCAN THE QR CODE OR VISIT
THE LINK BELOW TO COMPLETE
AN APPLICATION

<https://tinyurl.com/REA26-27>



CONTACT US

Contact one of the advisors below if
you have any questions.

LILA HACKETT

lila.hackett@onslow.k12.nc.us

JESSIE GUIDRY

jessie.guidry@onslow.k12.nc.us

PHONE: (910) 324-4191



Richlands High School

ENGINEERING ACADEMY

WHAT IS PLTW?

The Richlands High School Engineering Academy (REA) is a distinguished program for high school students interested in the field of engineering. The goal of the four-year program is to provide students with an advanced and rigorous curriculum in science, engineering, math, and technology that will prepare them for further study in careers in engineering. Students use problem-solving skills to tackle real-world engineering problems. REA uses the Project Lead the Way (PLTW) framework which is designed for high school students. PLTW Engineering is more than just another high school engineering program. It is about applying engineering, science, math, and technology to solve complex, open-ended problems in a real-world context. PLTW Engineering students investigate topics such as aerodynamics and astronautics, biological engineering and sustainability, and digital electronics and circuit design, giving them an opportunity to learn about various engineering disciplines before beginning post-secondary education or careers.

CHECK OUT THIS VIDEO

<https://tinyurl.com/ulhfda4>



PLTW COURSES

Introduction to Engineering Design (IED)

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects like designing a new toy or improving an existing product. (fulfills computer science requirement)

Principles of Engineering (POE)

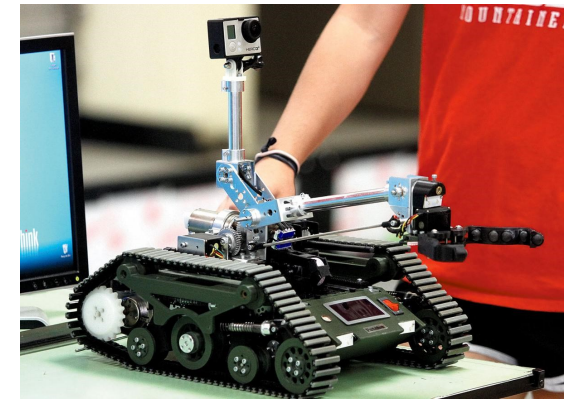
Students explore a broad range of engineering topics including mechanisms, strength of structure and materials, and automation, and then they apply what they know to take on challenges like designing a self-powered car. (fulfills computer science requirement)

Civil Engineering and Architecture (CEA)

Students learn important aspects of building and site design and development, and then they apply what they know to design a commercial building.

Digital Electronics (DE)

Students explore the foundations of computing by engaging in circuit design processes to create combinational logic and sequential logic (memory) as electrical engineers do in industry.



Guidelines and Eligibility

Once students are accepted into the academy, they must meet the following eligibility requirements to remain in the program:

- Academy students must enroll in honors or AP classes if available.
- Academy students must maintain a 3.0 (weighted) GPA.
- Academy students may not earn less than a C (70%) in any course.
- Academy students must adhere to Onslow County Schools and Richlands High School behavior and attendance guidelines.

