Student Engagement

Lansdowne students are presented with many opportunities to see real world applications and meet professionals in the field of their study. These experiences motivate students to set life goals and work diligently toward those goals.

Professional Engineers Visit Lansdowne High School in order to show real world engineering problems and applications.

Biomedical Science (PLTW) & Engineering and IT

PLTW students problem solve in order to construct a working pump

Robotics Club Competition

Physics students plot height and time of a falling object in order to derive a formula for gravity.
Project Lead the Way: Biomedical Sciences

PLTW offers an intensive focus on the concepts of human medicine and bioinformatics. Project Lead The Way Courses are structured on the principles of biomedical science, human body systems, medical interventions, and biomedical innovation. Students who select this pathway must be strong in math and science with a desire to enter medical science in the future.

Biomedical Sciences Courses Offered:
◊ Principals of Biomedical Science
◊ Human Body Systems
◊ Medical Interventions
◊ Biomedical Innovations

AP Courses Offered:
◊ AP Biology
◊ AP Environmental Science
◊ AP Anatomy and Physiology
◊ AP Psychology

Engineering and Information Technology

Engineering and IT offers a unique combination of engineering and programming courses in order to prepare students with the ability to design and construct both physical structures such as bridges, houses, and machinery and computer programs such as Web sites and apps. This blend of digital and non-digital constructions strengthens students’ abilities to be effective in multi-disciplinary environments.

Engineering and IT Courses Offered:
◊ GT Engineering
◊ Java/HTML
◊ GT Physics
◊ C++
◊ AP Computer Science