



PLTW

BIOMEDICAL SCIENCE





PLTW Biomedical Science students are taking on the same real-world challenges as medical professionals— and they’re doing it before they even graduate from high school. Working with the same equipment used by professionals in hospitals and labs, students engage in compelling, hands-on activities and work together to find innovative solutions to relevant problems. Students take from the courses in-demand knowledge and skills they will use in high school and for the rest of their lives, on any career path they take. Whether designing the next generation of medical innovations or teaching healthy lifestyle choices to their communities, today’s biomedical science professionals are tackling big challenges to make the world a better place.

COURSES

Principles of Biomedical Science

From design and data analysis to outbreaks, clinical empathy, health promotion, and more, students explore the vast range of careers in biomedical sciences. They develop not just technical skills, but also in-demand transportable skills that they need to thrive in life and career.

Human Body Systems

Students experience real-world scenarios and cases to see medicine in action - as they diagnose and provide treatment and rehabilitation to patients at an outpatient center, keep clients safe and healthy on adventure medicine trips in remote locations, and work in a research center to design laboratory investigations to explore development and aging.

Medical Interventions

Students delve into activities like designing a prosthetic arm as they follow the life of a fictitious family and investigate how to prevent, diagnose, and treat disease.

Biomedical Innovation

Students build on the knowledge and skills gained from previous courses to design their own innovative solutions for the most pressing health challenges of the 21st century.

PLTW Capstone

Students engage in an open-ended research experience in the PLTW Capstone course, a culminating program for those completing PLTW's high school offerings. They collaborate in teams, designing and developing original solutions to well-defined and justified real-world problems.





As a teacher, I have been totally reinvigorated by this curriculum. One of the best things for me is seeing just how much kids can do when you challenge them to do it. I have no doubt that the kids who go through this program are better off when they get to college and when they get to jobs because they know how to do things for themselves. They have been challenged - they know how to step up and to take different pieces and parts, put them together, and make something new.”

— Lexington Richland School District No. 5
PLTW Biomedical Science Master Teacher, Becky Howell

ASSESSMENTS

PLTW offers a first-of-its-kind summative assessment that measures both subject-matter knowledge and mastery of in-demand, transportable skills. In a rapidly changing economy, students with in-demand, transportable skills – including problem solving, critical and creative thinking, collaboration, communication, and ethical reasoning – are most likely to thrive throughout their education and careers. PLTW's Assessments are designed to mirror the transformative learning experience with results that impact your student's future.

Learn more at pltw.org/assessments or access our [White Paper](#).

PROFESSIONAL DEVELOPMENT

PLTW Core Training is a learning experience that incorporates authentic, meaningful, and best-in-class facilitation practices that ensure the quality delivery of course content. All participants will interact and learn together in an environment that offers increased flexibility in the training format, expanded resources, exciting networking opportunities, and the engaging high-quality course content that teachers expect from PLTW. PLTW's Core Training supports and empowers teachers from diverse backgrounds to successfully facilitate the courses.

Learn more on pltw.org/training