

Science Technology Engineering Math



Science, Technology, Engineering, and Mathematics (STEM) education is the focus of a federally-funded 21st Century Community Learning Centers grant which Worcester County Public Schools received in 2009. The STEM Academies have been implemented in grades 6 – 8 as a new approach to our county's highly successful after school and summer programs. The main objectives of the STEM academies are to prepare all middle school

students for rigorous high school work in science and technology and to provide them with a springboard for seeking careers in fields with high demand, such as areas of science, engineering, and mathematics, after graduation from high school and post-secondary education. It is hoped that intense exposure to STEM areas during the middle school years will pique students' interest in pursuing class offerings and other areas of study at Worcester County's state-of-the-art technical high school.

Within our STEM Academies, schools work with partners such as Worcester County Branch of NAACP, Worcester County Health Department, Maryland MESA, Wallops Flight Facility (NASA), the Mid-Atlantic Institute for Space Technology (MIST), and HAWK Industries (University of Maryland Eastern Shore). These partners assist in promoting our academies, providing theme-based content to be used, and developing student mentoring programs. STEM Academies are housed at Pocomoke Middle School, Snow Hill Middle School, Stephen Decatur Middle School, and Berlin Intermediate School.

STEM Academies class offering in 2009-2010: CEI, Science Fair Prep, Frozen Worlds, Earthquakes, Robotics, Engineering Club, Physics Workshop, Digital Photography, SuccessMaker Lab, Reader's Assistant, Young Chefs Academy, MESA, Walking/Jogging Club, Math-Algebra I Tutoring/MSA Prep.

Summer STEM Academies 2009 Theme – Bridge Construction

Summer STEM Academies 2010 Theme – Robotics