

2012-2015 Learning Technology Abstract

This purpose of this project is to improve student achievement in Math English Language Arts through the use of technology in the classroom. The project objective is for teachers to create lessons in which targeted students in grades 9-12 at the Newburgh Free Academy (NFA) will demonstrate their proficiency through products they develop and through successful completion of the Regents Comprehensive Examination in Math. The intended result for teachers' professional development will be the integration of iPads and web-based resources into their lesson design. As a result of this design, student learning opportunities will be enhanced. For example, in a lesson on using brainstorming as an interactive instructional strategy and capitalizing on visual learning styles, teachers would have students use a iPads and software like math apps to demonstrate how solve equations.

To support student achievement, NFA is structured into small learning environments called Houses. The project will be implemented in those houses starting with the math teachers on the North Campus. Students, in addition to their core academic subjects, are given the opportunity to experience a wide range of technology-based topics in print, video, and digital media, e.g., Computer Graphics, Video Short Story, Journalism, Visual Communication and Design. The project will expand into the other academy houses in the second and third years of the project.

This project is developed in collaboration with three non-public feeder schools, with grades kindergarten through eight. These schools will be provided the same technology as the Newburgh Free Academy, e.g., iPads will participate in the professional development sessions supporting the use of this technology as well as incorporating the use of computers, peripherals, software and web-based resources into lesson design.