

HPCSD Science Lab Renovation

STEAM - Science Technology Engineering Arts & Math

The renovation of middle and high school science labs has been a goal of the Facilities Steering Committee for well over ten years. Labs have not been updated since the United States landed a man on the moon! Some of the F.D. Roosevelt High School labs are part of the original construction of the high school in 1965 and have not been upgraded in 52 years. Haviland Middle School labs have not been updated since its dedication in 1940. As enrollment and interest in science courses continue to increase, the existing space must be renovated to meet new science, engineering, and technology demands.

District STEAM Fair

~ From STEM to STEAM in 2017 ~

Science teachers were joined by the Fine and Performing Arts teachers to infuse the Arts into Science education.



38 FDR High School students volunteered to run the stations at the District STEAM Fair.

6

NYS

Master Teachers

Colleen Bucci

Dorothy Findlay

Dr. Deborah Kravchuk

Heather Wheeler

Andy Victor

Jen Parker

2010



VS

2017



3 AP Science Courses: Biology, Chemistry, Physics

63 Students enrolled in AP Science Courses

3 Sections of general Statistics

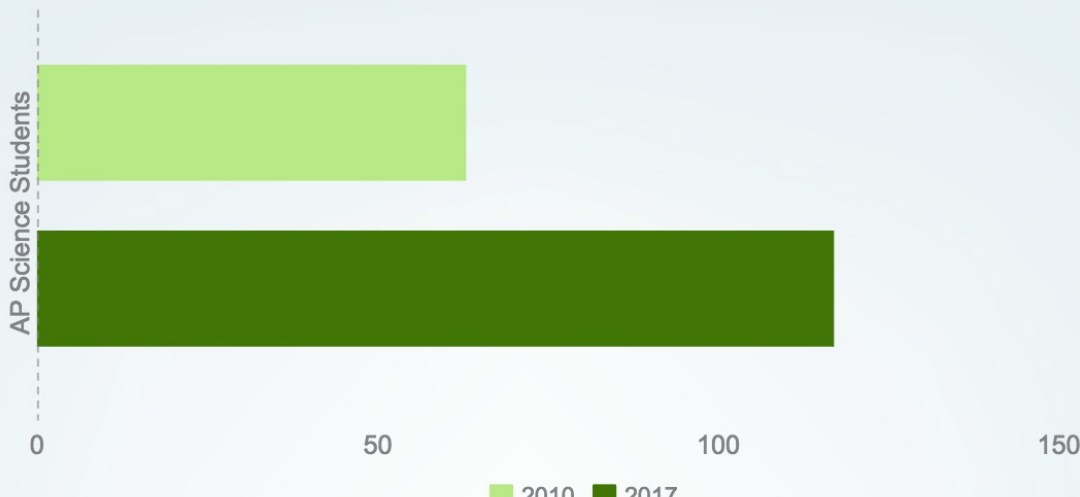
5 AP Science courses: Biology, Chemistry, Environmental Science, Physics I & Physics II

117 Students enrolled in AP Science Courses

3 Sections of AP Statistics



AP Science Enrollment



Project Lead the Way is a national non-profit organization that HPCSD is partnering with to implement high-quality STEM curriculum. F.D. Roosevelt High School currently offers PLTW pathways in engineering and computer science.

Updated Science labs will help us to add a Biomedical Science Pathway

Growing Careers in Science



Employment of life, physical, and social science occupations is projected to grow 7 percent, from 2014 to 2024, which will result in about 97,600 new jobs.



The median annual wage for life, physical, and social science occupations was \$62,160 in 2015, higher than the median wage for all occupations of \$36,200.



Employment of healthcare occupations is projected to grow 19 percent from 2014 to 2024, much faster than the average for all occupations, adding about 2.3 million new jobs.

Source

U.S Bureau of Labor and Statistics - <https://www.bls.gov/>

NEW NYS Science Learning Standards begin in 2017

NYS adopted the NYSSLS based on the Next Generations Science Standards (NGSS) to begin in the fall of 2017.

Science education should reflect the interconnected nature of science as it is practiced and experienced in the real world.

Engineering and Technology have been integrated into the structure of science education.



Mission

HPCSD

Statement

The Hyde Park Central School District empowers our community to strive for excellence and embrace the opportunities of our globally connected world.

Before



After



Source:

Created by the Hyde Park Central School District - K-12 Math & Science Director Kim Knisell
www.piktochart.com/blog