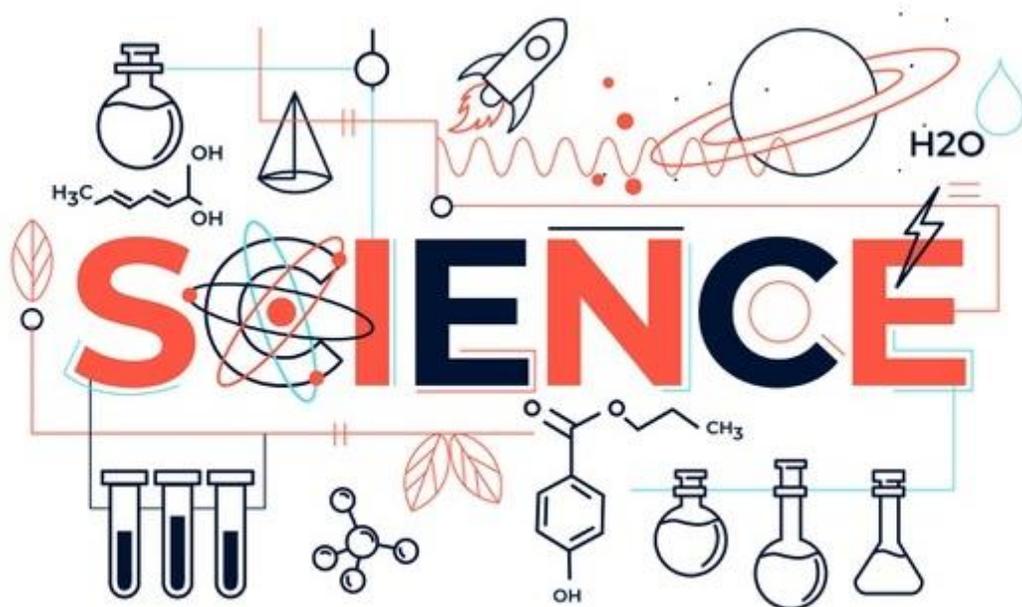


## Science Clubs & Activities offered at PHS



### Science National Honor Society      Advisor: Dr. Mrotek

To be accepted into the Science National Honor Society, students must be young thinkers who will be the future of industry, research, and scientific exploration for America. This group of students maintained excellent grades in all their science and academic classes, and coordinated service hours supporting the community.

### Med Club      Advisor: Ms. Kochupurackal

Participation in Med Club will provide students with exposure to health career choices and development of a deeper understanding of all of the different offerings of employment in the health care field. Additionally, students develop an understanding of current health care issues and environmental concerns in health care.

### GenEn (SMAP) Advisors: Ms. Wilson & Dr. Lollin

The GenEn Club is designed to introduce high school students to modern molecular genetics by having them conduct genuine research projects. It involves an intensive multi-week program at the Waksman Institute over the summer (for the WSSP Student Scholar only) and then continues throughout the school year with regular meetings to discuss research progress and culminates with a poster presentation of findings at Rutgers University in Piscataway. The current project focuses on the genomic sequence analysis of

Duckweed *Landoltia punctata* and how its genes compare with other species. Students first isolate and then sequence the organism's genes and this information is deposited in the National Center for Biotechnology Information (NCBI) for use by scientists throughout the world. Using the gene sequence information, students compare the evolutionary relationship between *L. punctata* and other Eukaryotes. The overall goal for students is to publish a submission into the NCBI database.

**HOSA (Health Occupation Students of America)      Advisor: Dr. Murphy**

The purpose of HOSA is to develop leadership and technical HOSA skill competencies through a program of motivation, awareness and recognition. The goals of HOSA are to develop effective leadership qualities and skills to develop the ability to communicate more effectively with people. Within the HOSA club we are looking to have the students develop an understanding of the importance in interacting and cooperating with other students and organizations, to develop character and to build self-confidence and pride in one's work. This will be achieved by having the students run a number of fund raisers and participate in the local, regional, state and national HOSA sponsored competitions. Participation in HOSA will guide the students into making realistic health career choices and seek successful employment in the health care field and to develop an understanding of current health care issues, environmental concerns, and promote career opportunities in health care.

**Science Olympiad              Advisor: Mr. Chioffe**

Science Olympiad is a club in which students can explore topics of their interest in science beyond the classroom, eventually competing in a regional competition in which students apply their knowledge in various events.

**New Jersey Science League**

**Biology I Team              Advisor: Mr. Bellew**

Biology I is one of the teams in the New Jersey Science League. It is offered to students who are in a first year high school biology class. The team meets on Thursdays after school to learn various biology topics, such as cell division, protein synthesis, evolution, genetics, and ecology. The New Jersey Science League tests each student once a month from January through April. Based on the test scores, students and the team earn a state ranking.

**Biology II Team      Advisor: Ms. Wilson**

This is a club for students currently taking AP Biology. In Biology League II, students learn new concepts and practice taking multiple choice tests. Once a month students take a test covering advanced topics in

biology. Individual students have often earned plaques for their contributions to the team. In 2014, the Piscataway High School Biology II team came in 7<sup>th</sup> place out of over 130 teams and earned a plaque for their efforts.

**Chemistry I Team**                      **Advisor: Ms. Sercan**

Chemistry I is one of the teams in the New Jersey Science League. Chemistry I is offered to students who are in a first year high school chemistry class. The team meets on Thursdays after school to learn various chemistry topics ranging from the atom to thermo chemistry. The New Jersey Science League then tests each student once a month starting in January and ending in April. Based on the results of these tests, the students and the team get ranking compared to other high schools throughout the state. In 2013 the Piscataway High School Chemistry I team came in 10<sup>th</sup> place out of 145 teams and earn a plaque.

**Chemistry II Team**                      **Advisor: Dr. Mrotek**

This is a club for students currently taking AP Chemistry. In Chemistry League II, students learn new concepts and practice taking multiple choice tests. Once a month students take a test that can earn them or the school recognition.

**Physics I & II Teams**                      **Advisor: Ms. Eibling**

Physics I is one of the teams in the New Jersey Science League. Physics I is offered to students who are in a first year high school physics class. The team meets on Wednesday after school to learn about various physics topics. Once a month students take a test that can earn them or the school recognition.

Physics II is one of the teams in the New Jersey Science League. Physics II is offered only to AP Physics C Students. The team meets on Wednesday after school to learn about various physics topics. Once a month students take a test that can earn them or the school recognition.