



## **SCHOOL PROFILE 2010-2011**



**Dr. Clifford B. Janey, State District Superintendent**

**Mr. Lamont Thomas, Principal**

**Ms. Julia Jackson, Vice Principal**  
**Ms. Lydia Alvarez, Vice Principal**

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**Newark, New Jersey 07103**

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*Changing Hearts and Minds to Value Education*



**SCIENCE PARK HIGH SCHOOL**  
260 Norfolk Street, Newark, NJ 07103  
973-733-8689, Fax: 973-733-8236  
CEEB CODE: 310932



## **SCHOOL PROFILE 2010-2011**

Science Park High School, serving grades 7-12, is a college preparatory institution. Their paths of study feature a variety of AP and Honors courses, as well as a wide range of academic electives. Consistently, Science Park has 99% of each graduating class attend post secondary institutions such as: Princeton, Harvard, Yale, Duke, Dartmouth, Lehigh, NYU, and Cornell to name a few.

### **MISSION**

The mission of Science Park High School is to encourage and prepare its students towards successful further study and lifelong contributions in the fields of Science, Technology, Engineering, and Mathematics. We accomplish this through a rigorous curriculum that is punctuated by college level coursework and that emphasizes interdisciplinary study, research, ethical and responsible leadership, global perspectives, and service.

To meet the challenges of the 21<sup>st</sup> century, our students must be critical thinkers, problem solvers, computer literate, and committed to school and community. To that end, we have established an educational plan which focuses on the creation of a school whose mission is to transform the teaching and learning of mathematics and science by developing ethical leaders. The future leaders will know the joy of discovering and forging connections within and among mathematics, science, the arts, and the humanities by means of exemplary laboratory environments characterized by research, innovative teaching and service.

The Academies at Science Park High School stress both core courses that are needed to fulfill high school requirements as well as electives which are needed for career pathways. After taking courses from these three areas, student will have a strong foundation for entrance into college. In addition, these subjects will ultimately support specific career goals.

**Applied Science Academy**

**Engineering/Architecture/Computer Science  
Geographic Information Systems**

**Behavioral Science Academy**

**Natural Science  
Social Science  
Education**

**Pure Science Academy**

**Health/Medical  
Research/Science**

Furthermore, the introduction of Problem Based Learning (PBL) across the curriculum will encourage students to use their creativity and reasoning skills to address issues pertinent to their community.

# SCIENCE PARK STUDENT AWARDS, COMMENDATIONS & ACCOMPLISHMENTS

- In September of 2009 Science Park was awarded the National Blue Ribbon School status by the United States Department of Education.
- Science Park has continuously ranked among the top seventy five high schools in the state by NJ Monthly Magazine.
- Second in the state in our District Factor Group (DFG) by the Star Ledger
- At the 2010 Essex County Math League, Science Park students placed 3<sup>rd</sup> overall, and won 1<sup>st</sup> Place Team for Calculus, as well as, 1<sup>st</sup> Place Individual for Calculus and 3<sup>rd</sup> Place Team for Advanced Math.
- At the 10<sup>th</sup> Congressional District Art Show, in the Computer Graphics Category, Science Park students placed Overall 3<sup>rd</sup> Place Individual, and 1<sup>st</sup> Place Individual .
- Science Park High School sponsored a National High School Debate Tournament which featured students from six different states, including NY, NJ, PA, MD, VA, and Texas February 3 - 5, 2010. It was part of the yearlong celebration of Science Park High Schools' Debate Teams 30<sup>th</sup> anniversary.
- Science Park debate team and debate alumni sponsored a public debate on Governor Christie's education policies on May 20, 2010.
- Science Park sent two policy debaters to represent the State of New Jersey at National Forensics League Nationals in Alabama in June of 2010.
- Three Science Park debaters represented the Newark Public School District at Emory University's Barkley Forum debate tournament in February 2010.
- Jonathan Alston received the Debate Coach of the Year Honor from the New Jersey Forensics League in March of 2010
- Science Park debaters participated and won a series of tournaments around the country, including Univ. of North Texas, Columbia and Yale.
- Science Park debaters helped established the Association of Undocumented-Americans, holding first ever conference to provide information to the talented non-citizens in the Newark Public Schools System.
- Science students participated in the May 2010 American Chemical Society in partnership with NJIT statewide Chemistry Olympics. Two students earned First Place in the Biochemistry Lab Events.
- 2 Science Park students participated in the Jan 2010 National Science Olympiad winning 8<sup>th</sup> place in the Environmental Design event.
- Science Park students received \$50,000.00 sponsorship from Saiichi Sankyo to participate in the statewide Students 2 Science program.
- Science Park was awarded \$ 4,980.00 from the TOSHIBA Foundation Grant for the "Greenhouse Project for Special Needs Students"
- Science students participated in the national Project SEED Summer Student Research Program: Summer 2009: 2 SPHS students won first place and were awarded laptops and during the Summer 2010 a SPHS student placed first and won a laptop.
- SPHS received \$10,500.00 from UMDNJ Partnership to provided sponsorship for the participation of 7 students in the 2009-10 Student Independent Research program. In SPHS received \$7,500.00 from UMDNJ Partnership to provided sponsorship for the participation of 5 students 2010 - 2011 Student Independent Research program.

## SCIENCE PARK PARTNERSHIPS

Local colleges provide ancillary programs for academic support and enrichment of our students. The various partnerships and programs enhance our students' education, provide SAT enrichment, and offer college tours. These ongoing groups contribute significantly to foster extra support to Science High students.

W.E.B. De Bois at Princeton  
Explorer's Club/Newark Museum  
NJIT (Chemistry)  
Rutgers, Newark  
ECC (Biology)  
Kean  
Montclair  
UMDNJ  
Public Health Research Institute  
Seeds at Stevens Institute of Technology  
100 Black Men  
NJPAC Resident Artist  
100 Black Men  
Princeton Review

Talent Search at NJIT & Essex County College  
Upward Bound at Seton Hall, UMDNJ, Montclair & William  
Patterson  
Seeds at Stevens Institute of Technology  
Saturday Academy & Institute for Critical Thinking at  
Rutgers, Newark  
Pre-College at UMDNJ  
Public Health Research Institute  
Explorer's Club/Newark Museum  
ACE Mentoring (Architecture, Construction & Engineering)  
Civil Air Patrol  
ASPIRA  
Best Friends  
University Heights/Science Park  
Do Something  
Delta Teen

## SCIENCE PARK ATHLETIC CHAMPIONSHIPS

Science Park Girls Tennis: SEC Divisional Champs 2009

Science Park Girls Soccer: SEC Divisional Champs 2009

Science Park Girls Volleyball: Essex County Finalists; Group I State Finalists 2009

Science Park Girls Basketball: SEC Divisional Champs 2010

Science Park Boys Basketball: Sectional State Champs 2010

Science Park Softball: SEC Divisional Champs 2010

Science Park Girls Basketball 2000 Point High Scorer 2009

## SCHOOL ADMINISTRATION

**Principal-**Lamont Thomas, LThomas@nps.k12.nj.us  
**Vice Principal-** Lydia Alvarez, LAlvarez@nps.k12.nj.us  
**Vice Principal-** Julia Jackson, JJackson@nps.k12.nj.us  
**Athletic Director-**Mike Morgan, MMorgan@nps.k12.nj.us  
**Mathematics DC-** Argy Milonas, Amilonas@nps.k12.nj.us  
**Science DC-** Mridula Bajaj, Mbajaj@nps.k12.nj.us  
**Humanities DC** John Farrell - J1Farrell@nps.k12.nj.us

### School Counselors

Jose Mercado- JMercado @nps.k12.nj.us  
 Ana McDonnell- AMcDonnell@nps.k12.nj.us  
 Terese Capriglione- TCapriglione@nps.k12.nj.us  
 Betty Zachariah -BZachariah@nps.k12.nj.us

### Support Staff

**Social Worker-** Julia Maraviglia, JMaraviglia@nps.k12.nj.us  
**Child Study Team-** Karen McKnight  
**Nurse Anita White-** AEWhite @nps.k12.nj.us  
**Parent Liaison -**Tanisha Miles, TMiles@nps.k12.nj.us

## SCHOOL CLUBS, ORGANIZATIONS AND SPORTS

Chemistry Club	Library Club	Boys & Girls Basketball
Chess Club	Lincoln-Douglas Debate	Boys & Girls Bowling
Classics Club	Literacy Magazine	Boys & Girls Cross Country
Close-Up	Math Club	Boys & Girls Tennis
Computer Club	National Honor Society	Boys & Girls Indoor/Outdoor Track
Debate: Policy Debate/Speech	Robotics	Baseball/Softball
Drama Club	Science National Honor Society	Cheerleading/Pep Squad
Environmental Society	Student Government	Girls Volleyball
Future Nurses Club	Student Newspaper (Voltage)	Golf
Future Teachers of America	Yearbook (Synergist)	Swimming
Independent Science Research Program		

SAT Results for class of 2010

	Science	New Jersey	National
Critical Reading	494	495	501
Math	525	514	516
Writing	493	497	492

SAT subject tests with 5 or greater participants

SAT Subject Test	SPHS Mean	National Mean
English Literature	517	580
U.S. History	473	601
Mathematics Level 1	547	605
Mathematics Level 2	600	649
Chemistry	532	644
Physics	560	658
Spanish	662	644
Spanish with Listening	770	653

- College Board AP®: a) 132 students participated in 15 different AP exams and sat for 230 tests.  
 b) 49% of students taking AP Exams scored 3 or better.  
 c) 24% of students taking AP Exams scored 4 or better.  
 d) 18.2 % of students taking AP Exams scored a 5.

# PROGRAM OF STUDY

## MATHEMATICS

### College Prep

Algebra I  
Algebra II  
Geometry  
Calculus  
Discrete Mathematics  
Probability/Statistics  
Computer Science I  
Pre-Calculus  
SAT Skills

### Honors Offerings

Algebra I  
Algebra II  
Geometry  
Algebra I (PLUS)  
Algebra II (PLUS)  
Geometry (PLUS)  
Pre-Calculus

### AP

Calculus AB  
Calculus BC  
Computer Science  
Statistics

## SCIENCE

### College Prep

Earth Science  
Space Sciences  
Life Science  
Environmental Science  
Biology w. Lab  
BSCS Biology  
Forensic Science  
Chemistry Concepts and Inquiries  
Independent Science Research  
Modeling/Scientific Visualization  
Organic Chemistry  
Physics Concepts and Process  
Digital Image Processing  
Digital Engineering  
Engineer Robotics I,II  
Anatomy and Physiology I, II

### Honors Offerings

Biology/Honors  
BSCS Honors  
Chemistry -Concepts and Inquiries  
Environmental Science  
Physics Concepts and Process

### AP

Biology  
Chemistry  
Physics  
Environmental Science

## Social Studies

### College Prep

World History/World Cultures  
U.S. History I  
U.S. History II  
Economics  
Sociology  
Women's Studies  
Ethics  
Educational Psychology  
African American History

### Honors Offerings

World History/Cultures  
U.S. I  
U.S. II

### AP

U.S. History  
European History  
World History  
Macroeconomics  
Microeconomics  
Government(s) and Politics  
World History/Cultures

## LANGUAGE ARTS

### College Prep

English I  
English II  
English III  
English IV  
Public Speaking  
Drama  
Journalism  
SAT Skills  
Creative Writing  
Forensics Debate I  
Forensics Debate II

### Honors

English I,  
English II  
English III  
English IV

### AP

English Composition  
English Literature

## World Languages

### College Prep

Spanish I  
Spanish II  
Spanish III  
Spanish IV  
French I  
French II  
French III  
French IV  
Portuguese I  
Portuguese II  
Portuguese III  
Portuguese IV  
Latin I

### Honors Offerings

French III  
Spanish III

### AP

French  
Spanish

## The Arts

### College Prep

Art I  
Art II  
Art III  
Mixed Chorus I  
Mixed Chorus II  
Mixed Chorus III  
Mixed Chorus IV  
Advanced Mixed Chorus I  
Advanced Mixed Chorus II  
Advanced Mixed Chorus III  
Advanced Mixed Chorus IV  
Concert Band I  
Concert Band II  
Concert Band III  
Concert Band IV  
Desktop Publishing I  
Desktop Publishing II  
Instrumental Music I  
Instrumental Music II  
Instrumental Music III  
Instrumental Music IV  
Computer Animation  
Web Page Design  
Computer Applications  
Business and Personal Law

# 2010 Colleges/Universities Acceptance

Academy of Art University  
The University of Akron  
Albright College  
Alfred University  
Amherst College  
Arizona State University  
The University of Arizona  
The Art Institute of New York City  
Barnard College  
Baruch College of the CUNY  
Benedict College  
Berkeley College - Newark Campus  
Bethune-Cookman University  
Bloomfield College  
University of Bonn  
Boston College  
Boston University  
Boston University (College of Arts and Sciences)  
University of Bridgeport  
Brown University  
Bryn Athyn College of the New Church  
Bucknell University  
Caldwell College  
Carnegie Mellon University  
Central Pennsylvania College  
Central State University  
Chestnut Hill College  
Cheyney University of Pennsylvania  
Clark Atlanta University  
Colby College  
Colgate University  
Columbia University  
Columbia University (Columbia College)  
Cooper Union for the Advancement of Science & Art  
Coppin State University  
Cornell University  
Cornell University (College of Arts & Sciences)  
County College of Morris  
Daemen College  
Daniel Webster College  
Dartmouth College  
Delaware State University  
Delaware Valley College  
DeVry University  
Dowling College  
Drew University  
Drew University  
Drexel University  
Duke University  
Duke University (Pratt School of Engineering)  
East Stroudsburg University of Pennsylvania  
Embry-Riddle Aeronautical University - FL  
Essex County College  
Farleigh Dickinson University  
Farleigh Dickinson University, Edward Williams College  
Farleigh Dickinson University, Madison  
Felician College  
Florida Institute of Technology  
Fordham University  
Fort Valley State University  
Franklin and Marshall College  
Franklin Pierce University  
The George Washington University  
The George Washington University (School of Int'l Affairs)  
Georgetown University  
Georgetown University (The Walsh School of Foreign Service)  
Georgia Institute of Technology  
Georgia State University  
Georgian Court University  
Hampton University  
University of Hartford  
HoHoKus RETS  
Honolulu Community College  
Howard University  
Hudson County Community College  
Hunter College of the CUNY  
Hunter College of the CUNY  
Iona College  
John Jay College of Criminal Justice of the CUNY  
Johns Hopkins University  
Johnson & Wales University  
Johnson C. Smith University  
The Juilliard School  
Kean University  
Kentucky State University  
Keystone College  
Lackawanna College  
Lafayette College  
Lake Land College  
Lehigh University  
Lehigh University (Arts, Humanities, & Social Sciences)  
Lehigh University (Biosciences & Bioengineering)  
University of Maine  
Manhattan School of Music  
Marist College  
Marquette University  
University of Maryland, Eastern Shore  
University of Maryland, Eastern Shore  
Maryland Institute College of Art  
University of Maryland University College  
University of Maryland, College Park  
University of Massachusetts, Dartmouth  
University of Medicine and Dentistry of New Jersey  
Mercer County Community College  
Miami Dade College-North Campus  
University of Miami  
Michigan Institute of Aeronautics  
University of Michigan  
Middlesex County College  
Monmouth University  
Montclair State University  
Moravian College  
Morehouse College  
Morgan State University  
Morris College  
University of New Haven  
New Jersey City University  
New Jersey Institute of Technology  
New Jersey Institute of Technology (College of Science and Liberal Arts)  
New Jersey Institute of Technology (Newark College of Engineering)  
New Jersey Institute of Technology (School of Management)  
The College of New Jersey  
The College of New Jersey  
New York University  
New York University (College of Arts and Science)  
New York University (Liberal Studies)

New York University (Stern School of Business)  
 New York University - Abu Dhabi  
 Newbury College  
 Niagara University  
 Norfolk State University  
 The University of North Carolina at Chapel Hill  
 University of North Carolina at Charlotte  
 North Carolina Central University  
 North Carolina State University  
 University of North Dakota  
 University of North Texas  
 Nyack College  
 The Ohio State University  
 Pace University, New York City  
 Pace University, White Plains  
 Pennsylvania State University, Altoona  
 Pennsylvania State University, Harrisburg  
 Pennsylvania State University, University Park  
 Pennsylvania State University, University Park (College of Engineering)  
 University of Pennsylvania  
 University of Pennsylvania (College of Arts & Sciences)  
 University of Pittsburgh at Greensburg  
 Polytechnic Institute of NYU  
 Princeton University  
 Ramapo College of New Jersey  
 Randolph College  
 Rensselaer Polytechnic Institute  
 University of Rhode Island  
 Richard Stockton College of New Jersey  
 Rider University  
 University of Rochester  
 Rosemont College  
 Rowan University  
 Rutgers, The State University of New Jersey at Camden  
 Rutgers, The State University of New Jersey at New Brunswick  
 Rutgers, The State University of New Jersey at New Brunswick (College of Nursing)  
 Rutgers, The State University of New Jersey at New Brunswick (Rutgers Business School: Undergraduate)  
 Rutgers, The State University of New Jersey at New Brunswick (School of Arts and Sciences)  
 Rutgers, The State University of New Jersey at New Brunswick (School of Business)  
 Rutgers, The State University of New Jersey at New Brunswick (School of Engineering)  
 Rutgers, The State University of New Jersey at New Brunswick (School of Environmental and Biological Sciences)  
 Rutgers, The State University of New Jersey at Newark  
 Rutgers, The State University of New Jersey at Newark (Business & Management)  
 Rutgers, The State University of New Jersey at Newark (College of Arts & Sciences)  
 Rutgers, The State University of New Jersey at Newark (College of Nursing)  
 Sacred Heart University  
 Saint Augustine's College-NC  
 College of Saint Elizabeth  
 College of Saint Elizabeth  
 Saint Joseph's University  
 Saint Peter's College  
 San Francisco State University  
 Sarah Lawrence College  
 Savannah State University  
 School of Visual Arts  
 University of the Sciences in Philadelphia  
 The University of Scranton  
 Seton Hall University  
 Seton Hall University (College of Arts & Science)  
 Seton Hall University (College of Education & Human Services)  
 Seton Hall University (Pre-Professional & Special Programs)  
 Seton Hall University (School of Business)

Shaw University  
 Shenandoah University  
 University of South Carolina, Beaufort  
 Spellman College  
 St. John's University - Queens Campus  
 Stanford University  
 Stanford University (School of Engineering)  
 State University of New York at Albany  
 State University of New York Upstate Medical University  
 Stevens Institute of Technology  
 Stevenson University  
 Stony Brook University (Honors College)  
 Suffolk University  
 SUNY Oswego  
 Swarthmore College  
 Swarthmore College  
 Syracuse University  
 Syracuse University (College of Engineering & Comp. Science)  
 Temple University  
 Temple University (Fox School of Business)  
 Tufts University  
 Tuskegee University  
 Union County College  
 Valley Forge Christian College  
 Vaughn College of Aeronautics and Technology  
 Villanova University  
 Virginia Commonwealth University  
 Virginia Commonwealth University (School of the Arts)  
 Virginia Polytechnic Institute and State University  
 Virginia State University  
 Virginia Union University  
 Virginia Wesleyan College  
 Voorhees College  
 Weber State University  
 Wentworth Institute of Technology  
 The University of West Georgia  
 Wiley College  
 College of William and Mary  
 William Paterson University of New Jersey  
 Yale University  
 York College of Pennsylvania  
 Youngstown State University