Princeton International School of Mathematics and Science

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2017-2018 School Profile

THE SCHOOL

Princeton International School of Math and Science (PRISMS), located in Princeton, NJ, is a comprehensive four-year international boarding and day school enrolling students in grades 9 to 12. PRISMS is accredited by Middle States. The school was founded in 2013, on the concept of combining the best of China's STEM education with the best of America's STEM education. PRISMS emphasizes the research and development process by reinforcing research skills, such as open-minded inquiry, problem-solving and innovation. Its first graduating class was in June 2016.

ADMISSIONS PROCESS

The PRISMS admissions process is selective. All applicants are interviewed and screened thoroughly. A completed file consists of an application, transcripts, teacher recommendations, standardized testing - SSAT (Secondary School Admissions Test) and interview. In addition, all international students must submit the TOEFL (Test of English as a Foreign Language) with required scores of 100 or higher.

RESEARCH PROGRAM

A core feature of the PRISMS educational experience is a four-year research and development program threaded through our four- year high school curriculum. Our aim is that students begin by learning research skills in order to better prepare them for meaningful research or development projects in grades 11 and 12. This we accomplish by integrating Research Skills into our 9th grade Bridging the Arts Science and Engineering (BASE) program, and through 10th grade core Science and Applied Engineering courses.

In grades 11 and 12 students can choose a topic in which to conduct research within one of our STEM Research and Development areas. Typically a student will begin working on a project in the 11th grade and continue it into the 12th grade.

ADVANCED CURRICULUM

All courses are taught at the honors, AP, and post-AP levels. PRISMS students must take the following classes to meet graduation requirements:

Subject	Credits	Subject	Credits
Biology	1	Mathematics	4
Chemistry	1	English	4
Physics	1	History	3
STEM Electives	3	Applied Engineering	2
Fine Arts	1		
World Language	3	Research & Development	2

1 credit is equivalent to 1 academic year length (2 semesters).

Advanced Placement Course Offerings:

- AP Biology
- AP Calculus BC
- AP Chemistry
- AP Computer Science A
- AP English Language and Composition
- AP Environmental Science
- AP Physics
- AP Statistics
- AP Studio Art: 2-D Design
- AP Studio Art: Drawing
- AP World History
- AP US Government and Politics
- AP US History

Courses Beyond Advanced Placement level:

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Analytical Chemistry	Molecular Biology & Biotechnology
Differential Equations	Partial Differential Equations
Linear Algebra	Organic Chemistry & Biochemistry
Quantum Mechanics	Probability & Statistics
Graph Theory	Advanced Topics in Molecular Biology

GRADING SYSTEM

The following scale represents the grading system for PRISMS. All staff and faculty members are required to comply with the listed ranges for each designated grade.

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A	93-100	4.00	B+	87-89	3.33	C+	77-79	2.33	D+ 67-69 1.33
A-	90-92	3.67	B	83-86	3.00	C	73-76	2.00	D 64-66 1.00
			B-	80-82	2.67	C-	70-72	1.67	F below 64 0.00

All Honors and AP-level courses are not weighted. PRISMS does not perform individual student ranking.

PSAT/NMSQT Mean Scores: Oct. 2016
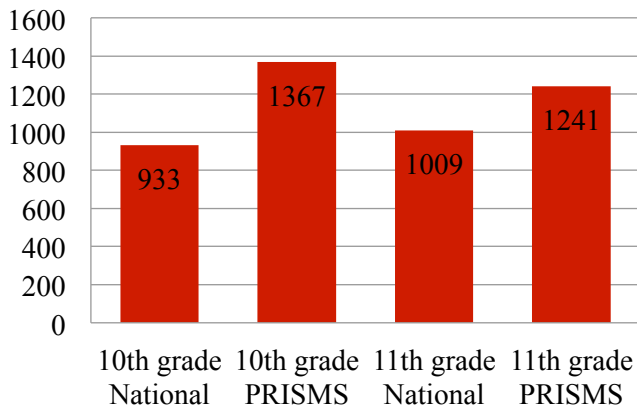
PSAT/NMSQT 2016	10th grade National	10th grade PRISMS	11th grade National	11th grade PRISMS
EBRW*	468	632	507	533
Math	464	735	502	709
Total	933	1367	1009	1242

SAT Mean Scores: 2016
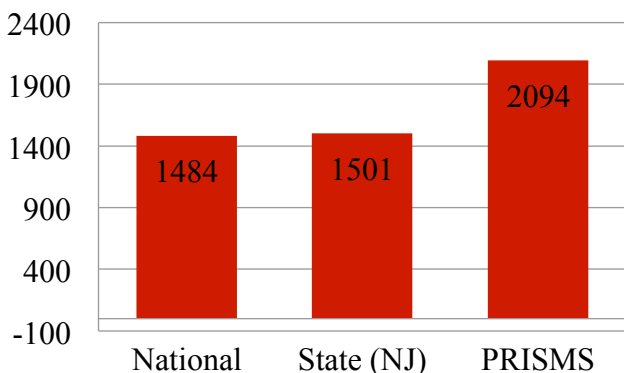
SAT 2017	National	State (NJ)	PRISMS
EBRW*	494	495	660
Math	508	514	790
Writing	482	492	644
Total	1484	1501	2094

* EBRW is Evidence-Based Reading and Writing
(Redesigned PSAT/NMSQT, October 2015)

ACADEMIC DISTINCTIONS

PRISMS math and physics teams have won TOP 10 places in international competitions such as Science Olympiad, International Math Olympiad, Princeton University Mathematics Competition, Princeton University Physics Competition, Yale Physics Olympics, and Harvard/MIT Mathematics Competition.

May 2017 Advanced Placement Results:

AP Exam 2015	Students Tested	Students Scoring 5	Students Scoring 4	Mean Score
Biology	13	9	4	4.0
Chemistry	8	8	0	5.0
Physics C: Mechanics	8	8	0	5.0
Physics C: Electricity & Magnetism	7	4	2	4.4
Physics 1 and 2	1	1	0	5.0
Calculus BC	20	20	0	5.0
Comp. Science	12	8	1	4.3
Eng. Lang. Comp.	8	3	2	4.0
Statistics	6	6	0	5.0
US History	5	1	1	3.6
Chinese Language	1	1	0	5.0
Microeconomics	5	3	1	4.4

**On May 2017, 66% of students participated in AP examinations.

SAT II Subject Test Scores:

Subject	Students Tested	Mean Score
Biology	2	775
Chemistry	7	781
Math Level I	3	700
Math Level II	11	786
Physics	4	755
U.S. History	2	705

References:
PSAT 10: Understanding Scores 2017:
https://collegereadiness.collegeboard.org/pdf/psat-10-understanding-scores-2017.pdf

SAT 2016 National & NJ State Profile Report:
https://reports.collegeboard.org/pdf/nj16030301.pdf

College & University Acceptances – Class of 2016 & 2017

Bolded indicates college matriculation

Andrews University
Berklee College of Music
Binghamton University
Boston University
Brown University
California Institute of Technology
California Polytechnic State University, San Luis Obispo
Carnegie Mellon University
Colorado School of Mines
Cornell University
Cornell University (College of Engineering) (2)
Drexel University
Duke University
Eckerd College
Florida Institute of Technology
George Washington University
Harvey Mudd College
Haverford College
Howard University
Illinois College
Illinois Institute of Technology (2)
Indiana University at Bloomington
Kettering University
Lafayette College
Loyola University Chicago
Massachusetts Institute of Technology (2)
New York University
Northeastern Uniersity
Oberlin College of Arts and Sciences
Ohio Wesleyan University
Pennsylvania State University
Princeton University

Purdue University
Rensselaer Polytechnic Institute
Rochester Institute of Technology
Rose-Hulman Institute of Technology
Rutgers University-New Brunswick
Tufts University
University of California, Berkeley

University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, San Diego
University of California, Santa Barbara
University of Chicago
University of Colorado at Boulder
University of Illinois at Urbana-Champaign
University of Maryland, College Park
University of Massachusetts, Amherst
University of Miami
University of Michigan (2)
University of Minnesota, Twin Cities
University of North Carolina at Chapel Hill
University of Notre Dame
University of Rochester
University of Southern California
University of Toronto
University of Vermont
University of Virginia
University of Washington
Villanova University
Virginia Tech
Washington University in St. Louis
Worcester Polytechnic Institute