



IMS FIELD TRIPS INCLUDE:

American Museum of Natural History
Rutgers University School of Environmental &
Biological Sciences
NJIT Makerspace
Stevens Institute of Technology
Rutgers School of Engineering

IMS GRADUATES ACCEPTED TO:

American University
Boston College
Brown University
Columbia University
Cornell University
Drexel University
Elon University
Fordham University
Georgia Tech
Howard University
Indiana University
John Hopkins
Loyola University
New Jersey Institute of Technology
Northeastern University
Northwestern University

Notre Dame
New York Institute of Technology
Princeton University
Purdue University
Rensselaer Polytechnic Institute
Rutgers New Brunswick
Seton Hall University
Stevens Institute of Technology
Tulane University
University of Delaware
University of Massachusetts
University of Pennsylvania
University of Pittsburgh
Villanova University
Virginia Tech
Yale University



WEST ORANGE HIGH SCHOOL

To learn more about IMS and its features, please visit our website:



MISSION STATEMENT

West Orange High School, a vital part of a culturally and linguistically diverse community, challenges and encourages students to strive for excellence through rigorous and comprehensive programs, to become active members of their community, and to emerge as lifelong learners. To this end, we are committed to superior classroom instruction, a safe and nurturing environment, and a partnership with family and community.

WEST ORANGE HIGH SCHOOL
51 CONFORTI AVE
WEST ORANGE, NJ 07052
(973) 669-5301

WEST ORANGE HIGH SCHOOL

INSTITUTE FOR MATHEMATICS AND SCIENCE



IMS: AN ACADEMICALLY RIGOROUS HONORS PROGRAM

STUDENTS MUST ENROLL IN:

HONORS ALGEBRA II
OR
HONORS GEOMETRY & ANALYSIS HONORS
BIOLOGY
RELATED ELECTIVES



PHILOSOPHY

The Institute for Mathematics and Science (IMS) at WOHS is a special honors program designed to provide a rigorous academic program for a cohort of students. The program is thematic, integrating Science, Technology, Engineering, and Math (STEM) instruction during the first two academic years at the high school.

IMS focuses on preparing our students for college and career by creating a pathway towards Advanced Placement coursework and post-secondary academics in STEM. The program works with institutions of higher learning and private industry to provide learning experiences outside of the classroom.

GOALS

- Provide a rigorous and demanding honors level academic program in STEM areas.
- Prepare students for Advanced Placement courses in Mathematics and Science.
- Prepare students for post - secondary college courses in Math, Science and Engineering.
- Provide students with authentic experiences through inquiry based learning.
- Explore futures in STEM through field trips, guest speakers and available opportunities.
- Explore STEM careers.
- Students are encouraged to become active members in:
 - Technology Students Association
 - Health Occupation Students of America
 - Three-Dimensional Printing Club
 - Fight for Green (Environmental Club)
 - Science Honor Society
 - Math Honor Society



ADVANTAGES/ OPPORTUNITIES

- STUDENTS FORM A BOND WITH CLASSMATES AND TEACHERS.
- STUDENTS DEVELOP CONNECTIONS AMONG COURSES OF STUDY, CAREER OPPORTUNITIES AND COLLEGE MAJORS.
- STUDENTS CONDUCT RESEARCH AND EXTEND THEIR LEARNING OUTSIDE THE CLASSROOM.
- STUDENTS COMPETE IN NATIONAL, STATE AND LOCAL COMPETITIONS SUCH AS MATH & SCIENCE LEAGUE.
- STUDENTS ARE PROVIDED THE OPPORTUNITY TO EXPLORE CAREERS THROUGH GUEST SPEAKER SEMINARS.
- STUDENTS ARE EXPOSED TO OUTSIDE OF THE CLASSROOM LEARNING EXPERIENCES.