

Customized Learning

We prepare students by offering:

- Enrichment opportunities for students to pursue their own scientific interests.
- A wide range of courses designed to meet the needs of all graduating students entering college, the workforce, and the armed services.
- Course designs that are inquiry-based and focus on real-world problems and solutions.
- Opportunities for students to collaborate with their teachers and peers.
- Standards-based assessment and reporting to provide students and their parents with specific information about student learning progress.

Within...

The Learning Environment

We feature:

- Highly dedicated and energetic teachers who provide personal interactions with every student.
- Well-equipped science classrooms to facilitate a laboratory-based approach to science instruction.
- Research-based Modeling Instruction in Chemistry I, Physics I, and Physics II.
- Technology integration in every class.
- A location along the shores of the Allegheny River which provides a natural outdoor laboratory for our students.



The mission of the Riverview School District is to provide an excellent education within the framework of a small, diverse community. We emphasize high quality academic and vocational programs in an environment which sets high expectations for all students, promotes personal growth and fosters the development of responsible and productive citizens.

A non-traditional public school district offering small student to teacher ratios, individualized learning, and a 21st century education through:

- Personal Attention
- Small Class Sizes
- Caring Educators
- Interdisciplinary Learning Opportunities K-12
- A Wide Variety of Award Winning Extracurricular Activities

Building Futures Since 1971

Riverview School District
701 Tenth Street Oakmont, PA 15139
412.828.1800 Opt 9 www.rsd.k12.pa.us



Secondary (7th-12th Grade)

SCIENCE



The Riverview Jr/Sr High School Science Department provides a high quality, laboratory-based instructional program that allows our students to achieve a thorough understanding of the world in which we live.



Riverview School District

Situated on the Allegheny River and serving Oakmont and Verona, PA

Riverview School District

Embracing Each Student's Potential

Philosophy

The science department of Riverview Jr/Sr High School strives to provide an environment in which students learn science by doing science. Through the use of inquiry-based laboratories and investigations, students develop and refine their scientific knowledge in order to gain a better understanding of the world in which we live.

Facilities

The Riverview School District is highly committed to maintaining our school's active science program. This commitment allows the Junior-Senior High School to feature seven dedicated classroom laboratories that are well-equipped to provide students with an opportunity to investigate a wide variety of physical phenomena. Our department features the use of probeware and software for computer-based data collection and analysis. Using these devices, students have the capability to measure pH, temperature, gas pressure, conductivity, CO₂ concentration, force, acceleration, magnetic field strength, and many other quantities both inside and outside of the classroom. Additionally, there are compound microscopes for biological investigations, materials for water quality analysis, video cameras for analyzing motion, and ample chemical and general supplies to ensure our students receive a strong laboratory-based science education.

Course Offerings

The science curriculum at Riverview Junior-Senior High School begins in the seventh and eighth grades when students study science using an integrated approach. In these classes, students receive foundational knowledge in Physical Science, Biological Science, Ecology, and Earth and Space Science.

At the high school level, students engage in more advanced studies in the following courses:

9th grade

Biology I or Principles of Biology
Earth and Space Science (1 semester)

10th grade

Chemistry I or Principles of Chemistry

11th grade

Physics I or Physical Science

Additionally, the following elective courses may be taken during the

11th and 12th grade years:

AP Biology
AP Chemistry
Physics II
Environmental Science
Physical Science II



DID YOU KNOW...

- The science department at the Jr/Sr High School has 7 dedicated science teachers with over 100 years of combined teaching experience.
- Our teachers have received awards and recognition for excellence in teaching.
- Our department offers 14 science courses, including two Advanced Placement courses and seven classes which meet for seven periods each week in order to facilitate laboratory work.
- Our past graduates have gone on to study and pursue careers in such fields as chemical, mechanical, civil, and nuclear engineering, medicine, and pharmacy.
- We offer such enrichment opportunities as the Pennsylvania Junior Academy of Science (PJAS), BotsIQ, the Faraday Lecture, Physics Day at Kenywood, and the Sam Rhine Genetics Conference.
- Our students can collaborate with Allegheny College's Creek Connections Program to investigate water quality in the Pittsburgh Region.
- In the past five years, over 50 student projects have earned First Awards in the PJAS competition at both the regional and state level.
- Our students have received special awards, recognitions, and scholarships through their participation in PJAS.
- Our school maintains an ongoing partnership with the Beechwood Farms Audubon Society for environmental studies.
- Our students conduct on-site testing and analysis of the water quality of the Allegheny River for a national database.

