



Brookline High School

Science Department

115 Greenough Street

Brookline, MA 02445

(617) 713-5365

Dear Guardians and Parents of 8th Graders,

The science courses offered at Brookline High School for 9th grade students are *Physics I* and *Physics I Honor*. After completing one of these courses, students can then take Chemistry followed by Biology. Following the completion of these three core subjects, students can choose from the 14 optional science courses that Brookline High offers.

Physics I is a rigorous course designed as a solid foundation in introductory physics. The course fosters a keen interest in science and a desire to inquire about real-world applications of physics. Topics include vibrations/waves, heat, electricity/magnetism, and mechanics. In addition to learning physics content, there is an emphasis on mastering the scientific skills that will provide a strong foundation for science courses in future grades. There are frequent hands-on activities and projects, with opportunities to go in more depth with optional extensions. After building skills in *Physics I*, students may elect to enroll in an honor level chemistry course in the tenth grade, and are prepared for *AP Physics* or for a science major in college.

Physics I Honor covers the same content as *Physics I* but in greater depth and with more mathematical applications. This course emphasizes understanding the same concepts with a strong math component that uses both algebra and some trigonometry to solve multi-step problems.

Sincerely,

Ed Wiser

Curriculum Coordinator for Science 9-12

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BHS Science Course List and Sequence

| <u>9th Grade</u> | <u>10th Grade</u> | <u>11th Grade</u> |
|------------------------------------|-------------------------------------|---|
| Physics 1 Physics 1 Honor | Chemistry 1 Chemistry 1 Honor | Biology 1 Investigative Biology 1/Investigative Biology 1 Honor Biology 1 Honor |
| <u>Optional Courses</u> | | |
| Astronomy | AP Physics | Engineering Innovation and Design Honor |
| Anatomy & Physiology | Biomedical Science | Engineering By Design |
| AP Biology | Forensic Science | Climate Science and Social Change |
| AP Chemistry | Neuroimmunology Honor | The History and Science of Sex, Gender, and Sexuality |
| AP Environmental Science | Marine Science | |