



## **Brookline High School**

**Science Department**

**115 Greenough Street**

**Brookline, MA 02445**

**(617) 713-5365**

Dear Guardians and Parents of 8<sup>th</sup> 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 15 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 trigonometry to solve multi-step problems.

Sincerely,

Ed Wisner

Curriculum Coordinator for Science 9-12

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<b>BHS Science Course List and Sequence</b>		
<b><u>9<sup>th</sup> Grade</u></b>	<b><u>10<sup>th</sup> Grade</u></b>	<b><u>11<sup>th</sup> Grade</u></b>
Physics 1 Physics 1 Honor	Chemistry 1 Chemistry 1 LBC Honor Chemistry 1 Honor	Biology 1 Biology 1 BSCS (College Prep or Honor) Biology 1 Honor
<b><u>Optional Courses</u></b>		
Astronomy (CP/H)	AP Physics – 1&2	Engineering Innovation and Design Honor
Anatomy & Physiology (CP/H)	AP Physics – C	Environmental Science and Society (CP/H)
AP Biology	Biology 2 Honor	Forensic Science (CP/H)
AP Chemistry	Body/Mind Honor	Genetics (CP/H)
AP Environmental Science	Engineering By Design	Marine Biology (CP/H)