

AP Physics at JFKS

10th/11th Grade Transition Information

AP Physics 1

AP Physics 2

AP Physics C: Mechanics

AP Physics C: Electricity and Magnetism

Presentation by Phil Blessman, JFKS AP Physics Instructor

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AP Physics Overview

- ▶ **FOUR COURSES:**
 - ▶ Algebra-based: (Formerly *AP Physics B*)
 - ▶ *AP Physics 1*
 - ▶ *AP Physics 2*
 - ▶ Calculus-based:
 - ▶ *AP Physics C: Mechanics*
 - ▶ *AP Physics C: Electricity and Magnetism*
- ▶ **Instructor: Mr. Blessman**
 - ▶ 22 years AP Physics teaching experience
 - ▶ 11 years experience as AP Physics Reader, Table Leader and Question Writer
- ▶ **European University Admissions:**
 - ▶ British schools tend to require any two of the four AP Physics exams
 - ▶ German schools tend to require *AP C: Mechanics* AND *AP C: E&M*



AP Physics 1/2 and AP Physics C: M/E&M in Alternating Years at JFKS

- ▶ Provide students with greater choice and flexibility
- ▶ Give students the chance to prepare for BOTH AP Physics C exams for admission to German universities
- ▶ Maximize opportunities for students to score two 5s to help with admission to British universities, as they can now prepare for four exams.
- ▶ Help students applying to US colleges and universities tailor their AP Physics courses to their planned major
- ▶ Alternating schedule allows JFKS to offer BOTH options, even though our high school is relatively small.



Offered in 2021-2022:

AP Physics C: Mechanics and Electricity and Magnetism

- ▶ Full-Year Class (August-June); 1.0 Credit
- ▶ Six periods per week
- ▶ Calculus-based
- ▶ Focus on depth compared to *AP Physics 1&2*, covering fewer topics
- ▶ Topics:
 - ▶ Linear and Rotational Motion
 - ▶ Forces: Newton's Laws
 - ▶ Momentum and Energy
 - ▶ Static Electricity and Electric Fields
 - ▶ Electric Current and simple circuits
 - ▶ Electromagnetic Induction
- ▶ Two 90-minute AP Exams in May
- ▶ Course will be offered again in 2023-2024



Offered in 2022-2023: *AP Physics 1 and 2*

- ▶ Full-Year Class (August-June); 1 Credit
- ▶ Six periods per week
- ▶ Algebra-based (no calculus required)
- ▶ Focus on breadth compared to *AP Physics C*, covering more topics
- ▶ Topics:
 - ▶ Linear and Rotational Motion
 - ▶ Forces: Newton's Laws
 - ▶ Momentum and Energy
 - ▶ Fluids and Thermodynamics
 - ▶ Static Electricity and Electric Fields
 - ▶ Electric Current and simple circuits
 - ▶ Electromagnetic Induction
 - ▶ Waves, Optics and Sound
 - ▶ Modern Physics
- ▶ Two 180-minute AP exams in May
- ▶ Course will be offered again in 2024-2025

