

# AICE Physics (AS Level)

AICE Physics is an accelerated and rigorous course that encompasses the AP Physics curriculum and enriched AICE program topics. This course focuses on the Advanced study of topics in general physics, Newtonian mechanics, matter, oscillations and waves, electricity and magnetism, and modern physics. The inquiry-based approach emphasizing principles of experimental design, scientific problem solving, and research skills requires students to use principles and concepts that are taught and to apply them in a logical, reasoned, and deductive manner to their work. Independent research is a required part of the program. Students will be prepared to sit for external examinations in theory and practical applications leading to an Advanced International Certificate of Education Diploma and an AP qualification.

**Credits** 1

**Grades**

11, 12

**Course Designation**

Advanced Subsidiary Level (AS),

Cambridge,

Weighted (1.0W)

**Schools**

Brentsville District High School

Potomac High School

**Prerequisites**

[IGCSE Physics](#) or [Physics 1](#); [IGCSE Chemistry](#) or [Chemistry 1](#)