

# **AP Physics C (Mechanics and EM)**

---

*The following standards are based on the BIG IDEAS (BI) and SCIENCE PRACTICES (SP) stated in the AP Physics C Exam Descriptions.*

- PS 1 SP 1: Visual Representations: Students will analyze and or use [non-narrative/non-mathematical] representations of physical situations, excluding graphs. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 2 SP2: Question and Method: Students will determine scientific questions and methods. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 3 SP3: Representing Data and Phenomena: Students will create visual representations or models of physical situations. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 4 SP4: Data Analysis: Students will analyze quantitative data represented in graphs. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 5 SP5: Theoretical Relationships: Students will determine the effects on a quantity when another quantity or the physical situation changes. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 6 SP6: Mathematical Routines: Students will solve problems of physical situations using mathematical relationships. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 7 SP7: Argumentation: Students will develop an explanation or scientific argument. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 8 BI1: Change: Students will understand that interactions produce changes in motion. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 9 BI2: Force Interactions: Students will understand that forces characterize interactions between objects and systems. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))



Standards-Based Education  
Priority Standards

# AP Physics C (Mechanics and EM)

- PS 10 BI3: Fields: Students will understand that fields predict and describe interactions. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))
- PS 11 BI4: Conservation: Students will understand that conservation laws constrain interactions. ([AP C MECH Course Description](#) and [AP C EM Course Description](#))