

Course Title	Physics
Standards Taught	<p>Focus: Course prepares students for 100-level college Physics courses, both algebra and calculus based.</p> <p>Engagement: Course content centers mathematical modeling anchored in applying physics concepts to relevant and career-related contexts.</p> <p>Pathway: Students are required to take Advanced Algebra as either a corequisite or prerequisite to this course.</p> <p>Belonging: This course is geared towards students with an interest in a future in a STEAM field, as well as those who are curious about the fundamental laws of the universe.</p>
Instruction Materials Referenced	CPO Science Physics with Labs
Content Outline	
Unit 1	<ul style="list-style-type: none"> ● Measurement and Motion
Unit 2	<ul style="list-style-type: none"> ● Forces
Unit 3	<ul style="list-style-type: none"> ● Free Body Diagrams (2D Forces)
Unit 4	<ul style="list-style-type: none"> ● Projectiles
Unit 5	<ul style="list-style-type: none"> ● Solar System Astronomy
Unit 6	<ul style="list-style-type: none"> ● Conservation of Energy
Unit 7	<ul style="list-style-type: none"> ● Waves, Sound, and Light
Unit 8.a	<ul style="list-style-type: none"> ● Optics
Unit 8.b	<ul style="list-style-type: none"> ● Electricity and Circuits

Unit 8.c	<ul style="list-style-type: none">● Thermodynamics
How will students demonstrate the learning?	Students will demonstrate their learning through a combination of class discussions, worksheets, posters, presentations, tests, and most importantly demo and lab activities.