

CFISD Advanced Placement Physics 1

Scope and Sequence 2024-2025

Course Description:

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students build their understanding of physical models as they explore and solve problems in these content areas: Kinematics, Forces and Translational Dynamics, Work, Energy, and Power, Linear Momentum, Torque and Rotational Dynamics, Energy and Momentum of Rotating Systems, Oscillations, Fluids. AP Physics 1 is equivalent to the first course in an introductory college course sequence in algebra-based physics. The course may substitute for Physics Credit.

College Board Advanced Placement Standards: [AP Physics 1](#)

Instructional Units	Days*	Start Dates	End Dates
First Semester	81	8/19/2024	12/20/2024
1st Grading Period (8/19/2024 - 10/18/2024)			
Unit 1: Kinematics	25	8/19/2024	9/23/2024
2nd Grading Period (10/21/2024 - 12/20/2024)			
Unit 2: Force and Translational Dynamics	28	9/24/2024	11/1/2024
Unit 3: Work, Energy, and Power	23	11/6/2024	12/13/2024
Finals Review and Exam	5	12/16/2024	12/20/2024
Second Semester	82	1/7/2025	5/29/2025
3rd Grading Period (01/07/2025 - 3/7/2025)			
Unit 4: Linear Momentum	15	1/7/2025	1/28/2025
Unit 5: Torque and Rotation	16	1/29/2025	2/21/2025
4th Grading Period (03/17/2025 - 05/29/2025)			
Unit 6: Energy and Momentum of Rotating Systems	10	2/24/2025	3/7/2025
Unit 7: Oscillations	10	3/17/2025	3/28/2025
Unit 8: Fluids	14	3/31/2025	4/17/2025
AP Review and Exam	19	4/22/2025	5/16/2025
Finals Review and Exam	8	5/19/2025	5/29/2025

** The length of each unit is a specific number of days, but it is understood that there is a range of +/- two days. The purpose of the flexibility is meant to allow teachers the opportunity to plan for the needs of their students and to accommodate re-teaching or review when necessary. If pre-assessment indicates student mastery could be obtained in a fewer number of days, the additional time could be used for extension or carried into the next unit.

Instructional Materials:

College Physics: A Strategic Approach 4th ed, AP ed

Knight et al

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