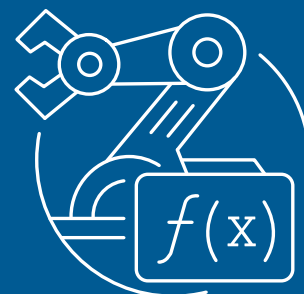


AP PHYSICS C: MECHANICS

AP[®] Daily: Live Review

AP Daily: Live Review is a series of livestreamed sessions on YouTube, hosted by AP teachers from across the country, that help students prepare for this year's AP Exams. Recordings of each session will be available on YouTube and on AP Classroom for students to watch on demand if they can't join live.

AP Teachers: Julie Hood & Angela Jensvold



The [AP Physics C: Mechanics Course and Exam Description](#) is the core document for an AP course. It clearly lays out course content and skills and describes the exam and AP Program in general.



Students can access [AP Daily videos](#) to help them learn and review course content and skills across all units in an AP course. Log into AP Classroom to watch these videos anytime, anywhere.

Session	Session Title	Session Description	Topics	Skills
1 MONDAY 4/19/2021	Understanding Conservation of Momentum	In this video, we will review conservation of momentum, and when kinetic energy remains the same before and after a collision. We'll also go over inelastic and elastic collisions.	4.1 4.2 4.3	6.A 6.C 6.B 6.D
2 TUESDAY 4/20/2021	Graphs of Potential Energy Curves	In this video, we will review potential energy curves and how they can be analyzed to obtain qualitative and quantitative information about the motion of a particle.	3.1 3.2 3.3	1.D 6.A 4.B 6.C 4.D 7.C 5.C
3 WEDNESDAY 4/21/2021	Graphing Simple Harmonic Motion	In this video, we will review simple harmonic motion and use graphing skills to analyze graphs. We'll set up a differential equation for a simple harmonic oscillator.	6.1	3.A 3.C 3.B 3.D

Session	Session Title	Session Description	Topics	Skills
4 THURSDAY 4/22/2021	Everything You Need to Know about Nonlinear Springs	In this video, we will review how to apply physics and applications of calculus to determine work done to stretch/compress nonlinear springs.	2.1 3.3 2.3 4.3 3.1	1.A 5.E 2.D 6.A 3.B 6.C 4.B 7.B 4.C 7.C 5.A 7.D 5.C
5 MONDAY 4/26/2021	Deriving Rotational Inertia	In this video, we will review derivations of rotational inertia using integral calculus and the parallel axis theorem. We'll also go over angular impulse.	5.1 5.4	5.A 5.D 5.B 5.E 5.C
6 TUESDAY 4/27/2021	Oscillations and Simple Harmonic Motion	In this video, we will review oscillations and simple harmonic motion for a mass-spring system, as well as for simple and physical pendulums.	6.1 3.3	1.E 4.E 2.B 5.E 2.F 7.C
7 WEDNESDAY 4/28/2021	Angular Momentum & Rotational Collisions	In this video, we will review conservation of angular momentum and rotational kinetic energy. We'll also go over the difference between inelastic and inelastic collisions.	5.3 5.4	7.A 7.D 7.C 5.A
8 THURSDAY 4/29/2021	Understanding Resistive Forces	In this video, we will review resistive forces acting on falling objects, as well as objects moving horizontally.	1.1 2.1	1.A 4.A 1.B 4.B 3.A 5.A 3.B 7.D



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