

AP Physics 1 - Programme of the year 2024-2025

WB	AP Unit	Open Stax	Topic	Content summary	Notes
12-Aug	0	1.1 – 1.4	Experimental Design and Data Analysis	Intro, quantities, units Precision, accuracy, sig fig, approximation	
19-Aug	1	2.1 – 2.8	Kinematics – 1D	Displacement 1D - Vectors and scalars, Speed/velocity, time, acceleration, falling objects, calculating motion	
26-Aug	1	3.1 – 3.5	Kinematics – 2D	2D – Intro, adding and subtracting vectors, relative velocity, projectile motion	
02-Sep	1	3.1 – 3.5	Kinematics – 2D	2D – Projectile motion	Mon 2 nd – Labor Day
09-Sep	2	4.1 – 4.6	Force and translational dynamics	Forces, Newton's Laws	
16-Sep	2	4.7 – 5.2	Force and translational dynamics	Applying Newton's Laws	
23-Sep	2	5.2 – 5.3	Force and translational dynamics	Friction and Drag	
30-Sep	2	5.2 – 5.3	Force and translational dynamics	Atwood machines	Wed 2 nd – PT conf Thur 3 rd – Rosh Hashanah Fri 4 th – PT conf
07-Oct	2	6.1 – 6.4	Force and translational dynamics	Centripetal force, acceleration, angular velocity	
14-Oct			Interim		Fri 18 th – Quarter break
21-Oct	2	6.4 – 6.6	Force and translational dynamics	Fictional forces, Newton's Law of Gravitation, and Kepler	Mon 21 st – Quarter break
28-Oct	3	6.4 – 6.7	Force and translational dynamics	Fictional forces, Newton's Law of Gravitation, and Kepler	
04-Nov	3	7.1 – 7.3	Energy and conservation of energy	Work, kinetic energy and gravitational potential energy	
11-Nov	3	7.4 – 7.6	Energy and conservation of energy	Conservative forces, non-conservative forces, energy conservation	Mon 11th - Veteran's Day
18-Nov	3	7.7 – 7.8	Energy and conservation of energy	Power, energy, and work	Tues 19 th - Explorations Wed - Fri - Thanksgiving
25-Nov	4	8.1 – 8.2	Linear Momentum	Linear momentum, force, and impulse	
02-Dec	4	8.3 – 8.5	Linear Momentum	Conservation of momentum, elastic and inelastic collisions	
09-Dec	4	8.6 – 8.7	Linear Momentum	Collisions in 2D, rockets	Fri 13 th – Reading day
16-Dec			Mon - Thurs- exams	Winter break	Fri - Winter break
23-Dec			Winter break		

	Unit	OS	Topic	Content	
06-Jan	4	8.6 – 8.7	Rotational motion and angular momentum	Angular displacement, velocity, acceleration, kinematics	Mon 6 th – Faculty PD
13-Jan	5	10.1 – 10.2	Rotational motion and angular momentum	Torque, moment of inertia	
20-Jan	5	10.3 – 10.4	Rotational motion and angular momentum	Solving problems, pulleys with mass	Mon 20 th - MLK Day
27-Jan	6	10.5 – 10.6	Energy and Momentum in Rotating Systems	Angular momentum, conservation of angular momentum, practical problems	
03-Feb	7	16.2 - 16.3,	Oscillations	Oscillators, mass/spring system, and SHM	
10-Feb	7	16.4 – 16.5	Oscillations	Analyzing SHM with math	
17-Feb			Mon 17 th – Faculty PD	Tues/Wed - PT conf	Thurs/Fri - Rodeo break
24-Feb	7	16.4 – 16.5	Oscillations	The simple pendulum, energy and damped oscillations	
03-Mar	8	11.1-3	Fluids	Defining systems, density and hydrostatic pressure	
10-Mar	8	11.1-3	Fluids	Buoyancy, conservation of energy/mass in flow rate	
17-Mar	All	All	All	Revision/Exam prep	
24-Mar			Spring Break		
31-Mar	All	All	All	Revision/Exam prep	
07-Apr	All	All	All	Revision/Exam prep	
14-Apr	All	All	All	Revision/Exam prep	Fri 18 th Good Friday
21-Apr	All	All	All	Revision/Exam prep	
28-Apr	All	All	All	Revision/Exam prep	
05-May	All	All	All	Revision/Exam prep	
12-May			Friday 16 th May, 8am AP 1 exam		Reading Day 14th Finals start Thu 15 th
19-May	Exams	Exams	Finals	Commencement	

* Timings are for guidance only and subject to change.