AP Physics 2 - Programme of the year:

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	9	13.1 -6	Thermodynamics	Kinetic Theory, Pressure, temperature, Maxwell-Boltzmann, rms speed, 3/2kt = ½ mv^2 ideal gases The Ideal Gas Law	
26-Aug	9	15.1 -15.2	Thermodynamics	Energy transfer, internal energy, conservation, work, 1st Law	
02-Sep	9	14.1 – 7	Thermodynamics	Specific Heat, Thermal Conductivity	Mon 2nd – Labor Day
09-Sep	9	14.1 – 7 15.1	Thermodynamics	2nd Law, entropy	
16-Sep	10	18.1 – 3	Electric force, field, and potential	Electric systems, charge, e, conservation, induction, permittivity	
23-Sep	10	18.4 - 6	Electric force, field, and potential	Electric forces, FBDs, Coulomb's Law, electric vs. gravity, vectors	
30-Sep	10	19.1 – 4	Electric force, field, and potential	Field and potential, potential energy,	Wed 2nd – PT conf Thur 3rd – Rosh Hashanah Fri 4th – PT conf
07-Oct	10	19.5 – 7	Electric force, field, and potential	Parallel plates, equipotentials	
14-Oct			Interim		Fri 18th – Quarter break
21-Oct	11	20.1 – 3 21.3	Electric circuits	Current, p.d., resistance, resistivity, Kirchoff's Laws,	Mon 21st – Quarter break
28-Oct	11	20.4, 21.1 - 2	Electric circuits	Power, Internal resistance,	
04-Nov	11	21.6	Electric circuits	capacitance, combinations of capacitors	
11-Nov	11	21.6	Electric circuits	Analyzing circuits	Mon 11th - Veteran's Day
18-Nov	12	22.1 -3	Magnetism & electromagnetism	Permeability, dipole moment, ferro/para/dia induced magnetism, monopole dipole fields	Tues 19th - Explorations Wed - Fri - Thanksgiving
25-Nov	12	22.4 - 10	Magnetism & electromagnetism	Magnetic force, field around a wire	
02-Dec	12	23.1- 3	Magnetism & electromagnetism	Flux, electromagnetic induction, Faraday and Lenz's Laws	
09-Dec			Review/mop up		Fri 13th – Reading day
16-Dec		Exams	Mon - Thurs- exams	Winter break	Fri - Winter break
23-Dec			Winter break		

Date	Unit	OS	Topic	Content	
06-Jan	13	25.1 – 2	Geometric optics	Reflection, images in mirrors, curved mirrors	Mon 6th – Faculty PD
13-Jan	13	25.3 – 7 26.1 - 3	Geometric optics	Curved mirror equation, refraction, TIR, critical angle	
20-Jan	13	25.3 – 7 26.1 - 3	Geometric optics	Snell's Law,, images in lenses	Mon 20th - MLK Day
27-Jan	14	16.9, 17.1-17.4	Waves, Sound, and Physical Optics	Wave properties, speed, periodic waves, Polarization and Doppler	
03-Feb	14	16.10 – 11, 17.5	Waves, Sound, and Physical Optics	Interference, Standing waves	
10-Feb	14	27.1 - 6	Waves, Sound, and Physical Optics	Diffraction, Double-slit interference, gratings	
17-Feb			Mon 17th – Faculty PD	Tues/Wed - PT conf	Thurs/Fri - Rodeo break
24-Feb	14	27.7	Waves, Sound, and Physical Optics	Thin-film interference, review	
03-Mar	15	29.1 - 8	Modern Physics	Wave particle duality, wave functions , Bohr model of atomic structure, photoelectric effect, Compton scattering	
10-Mar	15	30.1-30.7	Modern Physics	Black body radiation, energy levels and spectra, $E = mc^2$	
17-Mar	15	31.1-31.6	Modern Physics	Fission, fusion, decay	
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 18th 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			Tuesday13th May, noon AP 2 exam		Reading Day 14th Finals start Thu 15th
19-May	Exams	Exams	Finals	Commencement	

* Timings are for guidance only and subject to change.