

AP Physics 2 Summer Assignments

Unit	Cribsheets	Bruhn (2017)	College Board
Potential energy landscapes	5.2.2 Potential energy landscapes		
Multiple-particle mechanics	7.3 Fluid mechanics	p. 91 MC # 1-6 FRQ # 7 (change "person sips" to "person very slowly sips")	
	7.4 Kinetic theory of ideal gas	p. 111 MC # 1, 2, 5	
Electricity (continued from AP Physics 1)	12.3.2 Electric fields and potentials	p. 135 MC # 1-10 FRQ # 11	
	12.8 Capacitors	p. 168 Mixed practice for circuits MC # 1-7 FRQ # 7 (MC 2 and 3 specifically deal with capacitors)	
	(AP Physics C EM: E2.3 RC Charging – top of cribsheet)		
Magnetism	13.1 Magnetism	p. 193 MC # 1-8	
	13.2 Magnetism in materials		
	13.3 Mass spectrometer		
Electromagnetism	14.1 Electromagnetism	p. 194 FRQ # 9	
Physical optics	15.1 Physical (wave) optics (Can mention SAT Physics: 15 Polarization, but not sure this level of detail is needed for the AP Physics 2 test even though it is mentioned)	p. 218 MC # 1, 2 FRQ # 9	

AP Physics 2 Summer Assignments

	in a problem in Bruhn – possibly a relic of the old AP Physics B test).		
Geometric optics	16.1 Geometry (ray) optics 16.2 Specular and diffuse reflection 16.3 Raytracing to determine visibility 16.4 Mirror and lens ray approximations 16.5 Light interrupted 16.6 Snell's law 16.7 Total internal reflection	p. 218 MC #3, 4, 5, 6, 7, 8, 10, 11, 12	
Modern physics	17.1 Quantum physics	p. 245 MC # 1, 6, 7, 8 FRQ # 9	
	17.2 Subatomic physics	p. 245 MC # 2, 3, 4, 5	
Statistical physics	18.1 Thermo first law	p. 111 MC # 3, 4, 6, 7 FRQ # 8	
	18.2 Thermo second law		