

AP Physics C Electricity and Magnetism Outline

Topic	Classwork	Homework
Electrostatics E1.1 Electric charge and force E1.2 Electric fields and potentials with calculus	FRQ 2016 # 1 FRQ 2002 # 1	FRQ 1978 # 1 (a,b,c) FRQ 2006 # 1 FRQ 1999 # 3
E1.3 Conductors near equilibrium E1.4 Gauss's law	Homemade rod problem	FRQ 2011 # 1 FRQ 2008 # 1
E1.5 Capacitors	FRQ 2015 # 1	FRQ 1999 # 1
Near-equilibrated currents E2.1.1 Current E2.1.2 DC (equilibrated) operation E2.1.3 Laboratory precautions and measurements for DC circuits E2.2 Informal and formal circuit analysis	FRQ 2010 # 2	FRQ 2016 # 2
E2.3 RC Charging E2.3.1 Mnemonic for exponential decays	FRQ 2003 # 2	FRQ 2007 # 1 FRQ 2006 # 2
Magnetism M1.1 Magnetism with calculus	FRQ 2011 # 3	
M1.2 Magnetism in materials M1.3 Solenoids	Derive solenoid field	
M1.4 Mass spectrometer	FRQ 1976 # 3	FRQ 1993 # 3
Electromagnetism N1.1 Electromagnetism	FRQ 2016 # 3 FRQ 2002 # 3	FRQ 2008 # 3 FRQ 2006 # 3
N1.2 Inductors N1.3 LR Increasing current N1.4 RC and RLC	FRQ 2011 # 2	FRQ 2008 # 2
Maxwell's equations N2.1 Maxwell's equations		
Practice finals		FRQ 2005