

AP PHYSICS ASSIGNMENT SHEET: UNIT 7 - CURRENT AND CIRCUITS

MR. DARLINGTON

Topic (Percent of AP Exam)	Reading	HW Problems	
IV. ELECTRICITY AND MAGNETISM (25%) [C3]			
18. ELECTRIC CURRENT (7%) [C3]		Chapter 18	
18.2 Electric Current	18.2	<u>page 515</u>	<u>page 517</u>
*The electric current and its unit, the ampere are defined		8	33
18.3 Ohm's Law: Resistance and Resistors	18.3	<u>page 516</u>	35
18.4 Resistivity	18.4	9	37
*Ohm's law is stated and its equation is given		11	
*The factors affecting the resistance of a conductor are discussed		16	
18.6 Electric Power	18.6		
*The equation relating electric power to current and voltage is given			
19. DC CIRCUITS [C3]		Chapter 19	
19.1 Resistors in Series and Parallel	19.1	<u>page 547</u>	<u>page 549</u>
*Series and parallel circuits are analyzed and calculations of equivalent resistance, current and voltage drop are performed		3	29
		4	37
19.2 EMF and Terminal Voltage	19.2	11	38
*A source of electromotive force is defined		16	41
*The internal resistance of a battery is defined		19	42
*The equation to calculate the terminal voltage is derived		<u>page 548</u>	44
19.3 Kirchhoff's Laws	19.3	20	45
*Kirchhoff's laws to solve complex networks are given		23	
19.6 Circuits containing Capacitors in Series and in Parallel	19.6	24	
*Series and parallel circuits are analyzed and calculations of equivalent capacitance and voltage and charge are performed		25	
		27	
			2 WEEKS
ELECTRIC CURRENT, DC CIRCUITS EXAM AND PROBLEM SET DUE DATE: WEDNESDAY, FEBRUARY 13			