

Physics Calendar - Current Electricity & Circuits: 2013-14(Williams) - Chapters 17-18 (11 days)

SNOW DAY VERSION- Bold and underlined means put in journal notes (for problems: Show your work!)

1	Mo:02/10/14	<p>GOALS: Current electricity introduction & multimeter</p> <ul style="list-style-type: none"> • Gloss over 9-01 and 9-01 notes (not for journal check) • Do resistor measurements, voltage measurement & current through a battery (hand held) with schematic • Try ohm's law with the hand held resistor. $I = Q/t$ (don't get this equation...it's a definition!); Start HW 	<ul style="list-style-type: none"> • <u>(09-02)</u> p 609: 1,3,5; p. 615: 1,3,5
2	Tu:02/11/14	<p>GOALS: Introduce boards and show series resistors, $P = iV$</p> <ul style="list-style-type: none"> • Do two resistors in series; give shopping analogy • Compute power on board and in theory (do more series resistors increase or decrease overall power?) 	<ul style="list-style-type: none"> • <u>(09-02)</u> p 609: 1,3,5; p. 615: 1,3,5
3	We:02/12/14	<p>GOALS: Parallel resistors: lower R, increase I and P</p> <ul style="list-style-type: none"> • Do parallel resistors on boards (note above!) • Contrast with yesterday's series resistors 	<ul style="list-style-type: none"> • <u>(09-05)</u> p 616: 2-4,7,8; p. 615: 1,3
4	Th:02/13/14	<p>GOALS: Circuit Construction Kit (computer)</p> <ul style="list-style-type: none"> • Simultaneously do same thing on board and on CCK • Try modeling harder circuit than we can make • Power & AC/DC (gloss over 9-03, 9-08 (no formal ✓)) 	<ul style="list-style-type: none"> • <u>(09-06)</u> p 623: 2,4; p. 615: 2,4,6
5	Fr:02/14/14	<p>GOALS: Circuit Construction Kit (computer) - day 2</p> <ul style="list-style-type: none"> • Same as yesterday, but harder and group challenge at end 	<ul style="list-style-type: none"> • <u>(09-07A)</u> p 650: 1,2,6; p. 655: 3,4
6	Tu:02/18/14	<p>GOALS: Solving circuits</p> <ul style="list-style-type: none"> • Use R_E rules (series and parallel) • Kirchoff (currents at junctions, voltage for any loop add up) • Use Ohm's law (A LOT) • Practice rules with clicker Q's • Try a Snake-like problem, then Dr. Snake's packet 	<ul style="list-style-type: none"> • Dr. Snake problems (no check) • <u>(09-08A)</u> p 656: 1-4; p. 659: 1-2
7L	We:02/19/14	<p>GOALS: Dr. Snake Packet o' Circuits group</p> <ul style="list-style-type: none"> • Work on problems • Possible similar group quiz 	<ul style="list-style-type: none"> • For Individual Quiz: Practice Dr. Snake problems (no check)
8	Th:02/20/14	<p>GOALS: Dr. Snake Packet o' Circuits individual</p> <ul style="list-style-type: none"> • Work on problems • Possible similar individual quiz 	<ul style="list-style-type: none"> • <u>(09-09A)</u> p 663: 1-3; p. 621: 1,3
9	Fr:02/21/14	<p>GOALS: Board & circuit challenge</p> <ul style="list-style-type: none"> • Solve board challenge as group: may test individual board/multimeter skills • Group quiz with all problem types including schematics, power, and parallel vs. series differences 	<ul style="list-style-type: none"> • <u>(09-11)</u> p 663: 4-6; p. 621: 2,4
10	Mo:02/24/14	<p>GOALS: Study</p> <ul style="list-style-type: none"> • Catch up on anything we're behind. • Go over HW Q's as prompted • Go over any topic • Possible clickers or other questions 	<ul style="list-style-type: none"> • Study for test
11	Tu:02/25/14	<ul style="list-style-type: none"> • Electricity Exam 	<ul style="list-style-type: none"> •