

PAP Physics – 2012 Spring Semester Syllabus – KJ Lowry
Class website: <http://www.quia.com/pages/klowry/page2>

- 1/17-18 Notes Ch 12 – Waves; Problems Ch 12 #s 25,31,33,35,37,41,45,48,50,51,57,59
Lab – Properties of Waves
- 1/19-20 Notes Ch 13 – Sound; Problems Ch 13 #s 28,30,39,40,41,44,51,53
- 1/23-24 Ch 12-13 Problems; Lab – Resonance and the Speed of Sound
- 1/25-26 *Review Chs 12-13*
- 1/27-30 Test – Chs 12-13**
- 1/31-2/1 Notes Ch 14 – Light and Reflection; Problems Ch 14 #s 10,12,20,34,35,36, 37,38,42,44,46,47
Lab – Reflection from a Plane Mirror
- 2/2-3 Notes Ch 14 – Color, and Polarization; Lab – Color Mixing; Lab – Polarization
- 2/6-7 Notes Ch 14 – Ray Diagrams; Lab – Concave and Convex Mirrors
- 2/8-9 Notes Ch 15 – Refraction; Problems Ch 15 #s 10,12,14,24,25,26,38,44,56,57
Lab – Snell’s Law; Lab – Total Internal Reflection
- 2/10-13 Notes Ch 15 – Ray Diagrams; Lab – Concave and Convex Lenses
- 2/14-15 *Review Chs 14- 15*
- 2/16-17 Test – Chs 14-15**
- 2/20-21 Notes Ch 17 – Properties of Electric Charge; Lab – Electrostatics
- 2/22-23 Notes Ch 17 – Electric Forces; Problems Ch 17 #s 3,19,20,21,38,43,60,66,68
- End of 4th Six Weeks**
- 2/24-27 Notes Ch 17 – Electric Fields
- 2/28-29 Notes Ch 18 – Electrical Potential Energy, Electric Potential, and Capacitance
Problems Ch 18 #s 12,26,27,36,41
- 3/1-2 *Review Chs 17-18*
- 3/5-6 Test – Chs 17-18**
- 3/7-8 TAKS – ELA (3/7); Notes Ch 19 – Current and Resistance
Problems Ch 19 #s 18,28,30,41,43,47,51,52
- Spring Break**
- 3/9-19 Lab – Ohm’s Law
- 3/20-21 Notes Ch 20 – Circuits; Problems Ch 20 #s 17,19,22,23,24,25,26,43,49
Discovery Lab – Simple DC Circuits
- 3/22-23 Notes and Problems Ch 20 – Analyzing Simple DC Circuits
- 3/26-27 Ch 20 Problems; Lab – Resistors in Series and Parallel
- 3/28-29 *Review Chs 19- 20*
- 3/30-4/2 Test – Chs 19-20**
- 4/3-4 Notes Ch 21 – Magnetism; Lab – Properties of Permanent Magnets
- 4/5-10 Notes Ch 21; Problems Ch 21 #s 22,26,34,35,36,41,44
- 4/11-12 Ch 21 Problems; Lab – Magnetic Field of a Solenoid
- End 5th Six Weeks**
- 4/13-16 Notes Ch 22 – Electromagnetic Induction; Problems Ch 22 #s 10,11,24,35,36,37,38,41,43
- 4/17-18 Lab – Building a Generator
- 4/19-20 *Review Chs 21-22*
- 4/23-24 Test – Chs 21-22**
- 4/25-26 TAKS – Math and Science
Notes Ch 23 – Atomic Physics; Problems Ch 23 #s 15,16,17,39,40,43,50
- 4/27-30 TAKS – Social Studies (4/27); Ch 23 Problems
- 5/1-2 Simulation Lab – Photoelectric Effect
- 5/3-4 Ch 23 Problems; Lab – Spectra
- 5/7-8 Notes Ch 25 – Subatomic Physics; Problems Ch 25 #s 23,24,25,27,41,48,50,51,52
- 5/9-10 Ch 25 Problems; Lab – Half-Life
- 5/11-14 *Review Chs 23&25*
- 5/15-16 Test – Chs 23&25**
- 5/17-18 Notes Relativity; *Quiz – Relativity*
- 5/21-22 Project due**
- 5/23-25 Review for finals
- 5/29-31 Finals**