Reading assignments specify the material to be covered that day in class; problem assignments should be worked *after* the class has occurred. You may work with others on the assigned problems but no more than three people should work together. Feel free to discuss the problems with your professor, lab manager, lab assistants or PALS leaders.

Only underlined problems are to be turned in. Each is **due at the beginning of the next class.** For example, the problem underlined on the Wednesday Sept 5th assignment (problem 6) is to be handed in as you walk into class on Friday Sept 7th.

Homework problems must be turned in as you walk into class. No late homework will be accepted without a dean's excuse. Be sure to show how you arrived at your answer; no credit will be given if only an answer is shown. Solutions to all the assigned problems will be posted on Lyceum.

There are two sections at the end of each chapter: one is **Questions** and the other is **Problems**. **The assignments below are from the Problems section, NOT from the Questions section.**

Wed Sept 5 *Introduction; What is Physics? Standards of Measurement, Units, and Significant Figures.*
Read: Chapter One, Sections 1, 2, 3, 4, 5, 6 and 8.
Do Problems (pp. 25 – 32): 6, 8, 26, 31 (see the inside cover for the speed of light), 41 and 75. **No Lab This Week.**

Fri Sept 7 *Vectors: Geometric and Algebraic Representations; Cartesian Coordinates; Velocity Addition.*
Read: a) Chapter Two, Sections 1, 2, 3, 4, 6, 8, 10, 11; Chap. Four, Sec. 4.
b) *Measurement Uncertainty and Significant Figures* (posted on Lyceum).
Do Problems (pp. 63 – 70): Chapter 2, numbers 6, 15, 17 and 65; Chapter 4, numbers 37 and 42. Also do the pre-lab (found on Lyceum) for Lab One and bring it with you to lab next week.

Mon Sept 10 *Kinematics in One Dimension.*
Read: Chapter Three, Sections 1, 2, 3, 4, 5, 6..
Do Problems (pp. 106 – 115): 1, 4, 7, 9, 10.
Lab begins this week.

Wed Sept 12 *One Dimensional Motion with Constant Acceleration.*
Read: Chapter Three, Sections 7 and 8.
Do Problems (pp. 154 – 167): 11, 14, 17, 26, 28, 29.

Fri Sept 14 *Kinematics in Two Dimensions; Projectile Motion.*
Read: Chapter Four, Sections 1 and 2.
Do Problems: Chapter 3: 41, 61 and 65; Chapter Four: 6, 8 and 9.

Mon Sept 17 *More Projectile Motion in Two Dimensions.*
Read: Chapter Four, Section 3.
Do Problems: 12, 15, 17, 18, 19, 32.

Wed Sept 19 *Uniform Circular Motion, Angular Speed and Centripetal Acceleration.*
Read: Chapter Four, Section 4.5
Do Problems: 49, 51, 56, 57 and 61.

Fri Sept 21 *Non-uniform Circular Motion with Constant Angular Acceleration.*
Read: Chapter Four, Section 12 (ignoring vector aspects of ω and α).
Do Problems: 69, 73a, b, c; 74; 80 (in each problem ignore the vector aspects of ω and α).

Mon Sept 24 *Vectors: The Scalar and Vector Products; Torque.*
Read: Chapter Two, Sections 7, 12, 13, 16, 17; Chapter 10 Example 10.3.
Do Problems: Chapter 2 numbers 14, 25, 43, 44.

Wed Sept 26 *Odds and Ends; Review.*

Fri Sept 28 **First Exam**

Fri Oct 5 **Parent's Weekend Physics Talk:**
"The Physics of Food"
Professor Glenn Schmieg,
Professor Emeritus, University of Wisconsin – Milwaukee
2:40 pm – 3:50 pm, Rm 115 Carnegie

A fun-filled, non-technical presentation including exciting demonstrations and interesting slides. Bring your parents!