

## Summer Assignment

Due Friday, September 2, 2011 [Note: This is the Friday BEFORE school starts so you can have your Labor Day weekend unencumbered]

AP Physics – Shea

This summer I would like you to review kinematics and vector addition. You may check out a textbook for the summer or use online access at <http://my.hrw.com> Username: mshea112 Password: physics

[Note: This is the honors book, not the AP book.]

The material can be found in Chapter 2 (Kinematics & Motion in 1-D) and Chapter 3: Sections 1 & 2 (Vectors).

Another resource reviewing the basic concepts (particularly with visualizing vectors) is [physicsclassroom.com](http://physicsclassroom.com)

To assess your progress and check your practice, we will be using the Quest online system. We will be using the system next year for most homework assignments.

You will need to request an EID which will be your username. Make sure to write down your information. Since it is an external site, I do not have access to your username/password information...so don't lose it!

To log-in, go to <https://quest.cns.utexas.edu/>

Click "Get Started"

On the next screen, if you have an EID sign in. If not, choose "I need an EID" and follow the instructions.

Once you have an EID you can sign in to the Quest system.

You now need to enroll in the course. Click the "Enroll in new course" button.

The course number is 1112-1. The course info should say APPhyz choose "Fall 2011". Enroll.

**I have to approve your enrollment.** I will check for enrollments about once a week during the summer. If you would like yours approved sooner, email me at [mfshea@henrico.k12.va.us](mailto:mfshea@henrico.k12.va.us) once you enroll. **DON'T WAIT UNTIL THE LAST WEEK TO ENROLL.**

The assignment will appear in the course window. It will be posted by the end of June.

Although the system takes off for incorrect tries, I will not for this assignment as long as you eventually get the correct answer. Keep in mind you **do** have a limited number of attempts.

Work out the problems on paper in addition to submitting your answers. I may ask to see your work in September. Email me if you have questions [mfshea@henrico.k12.va.us](mailto:mfshea@henrico.k12.va.us) If we need to have a help session in August we can.

### Kinematic Equations:

$$v = v_0 + at$$

$$x = x_0 + v_0t + \frac{1}{2}at^2$$

$$v^2 = v_0^2 + 2a(x - x_0)$$

### Variables:

The subscript <sub>0</sub> "naught" (e.g.  $x_0$  "x naught") designates the initial quantity

$a$  – acceleration

$t$  – time

$v$  – velocity

$x$  – position