

AP Physics I
Summer Assignment
2014-2015

Congratulations! You are signed up for AP Physics I next school year. This class is very similar to Honors Physics I. To make the transition to AP, some topics had to be cut out and others added. One topic added is an electricity component. We are also adding more laboratory work as well as project building...ie...balloon powered cars, catapults....etc..... When topics are added, others have to be removed. A few of those removed are conversion, sig figs, and relative error. I believe these topics are still very important since we do heavy conversion throughout the year. What also helps is this material has already been covered in Chemistry. So, here is what I am doing. The test I gave my Honors Physics I class in the past several years in regards to error, sig figs, and conversion is now found online. Yes, the exact same test. I also posted the homework I assigned them with the answers. What I am asking you is to work on this test over the summer and it will be due the second day of class when you return. This allows for questions on day 1. No homework is due, just the test. Use the homework as a guide. Yes, this does count as a test grade.

* Website: www.ephysics.net then go to AP Physics I then download test #0.

* If you have questions, email me at

michael.dollins@cchs165.com
or
mldollins@gmail.com

* We issue books the 2nd week of school. If you are interested in borrowing one over the summer, come down and see me. We use a college level text that is easy to understand. The book is not needed in doing this test however.

* Please show work on the conversion part....examples below. Sig figs are not necessary on the conversion part.

THANKYOU...I look forward to see you all next year

Mr. Dollins

5,000 mg → g

$$\frac{5,000 \text{ mg}}{1000 \text{ mg}} \times \frac{g}{1} = \boxed{5g}$$

1500 ft → mi

$$1500 \text{ ft} \times \frac{1 \text{ mi}}{5280 \text{ ft}} = \boxed{.28 \text{ mi}}$$

85 Km/hr → m/s

$$\frac{85 \text{ Km}}{\text{hr}} \times \frac{1000 \text{ m}}{1 \text{ Km}} \times \frac{1 \text{ hr}}{3600 \text{ s}} = \boxed{23.6 \text{ m/s}}$$

100,000 cm³ → m³

$$100,000 \text{ cm}^3 \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{1 \text{ m}}{100 \text{ cm}} \times \frac{1 \text{ m}}{100 \text{ cm}} = \boxed{.1 \text{ m}^3}$$

50,000 inches → mi

$$\frac{50,000 \text{ in}}{12 \text{ in}} \times \frac{1 \text{ ft}}{1} \times \frac{1 \text{ mi}}{5280 \text{ ft}} = \boxed{.79 \text{ mi}}$$

Show all work
 Circle answers
 don't forget units