

## AP Physics C Summer Assignment - Preblich

Due: **1<sup>st</sup> full day of school!**

AP Physics C is a challenging course and we will have much to learn next year. Therefore, I'd like you to start school warmed up and ready to go! I know you are anxious to solve lots of physics problems (can you ever get enough?), but please **wait until about two weeks before school starts** to complete this assignment (so they are fresh in your mind). Until then, relax and enjoy your summer (but feel free to think physics all the time)! Have fun!



"You know, I think this circuit's going to work."

Here is your summer assignment for AP Physics C. **This assignment is mandatory.**

Remember to **SHOW YOUR WORK** to get credit! (I have made people do the assignment over because they did not show enough work!!!)

In this class, you are expected to remember what you have learned from Physics I. We will not have time for reviewing Physics I during class time. **Knowing how to do these problems are prerequisites to this class!**

There will be a **QUIZ** on these problems during the first week you are back.

Complete the following (under the "**Problems**" section – not the "Questions" section):

**Chapter 1 – Measurement:** page 8; Problem #3

**Chapter 2 – 1D Motion:** pages 32-36; Problems #1, 23, 33, 51, 69

**Chapter 3 – Vectors:** page 57; Problems #6, 8, 13

**Chapter 4 – 2D Motion:** pages 85-88; Problems #22, 28, 30, 44, 59, 62

**Chapter 5 – Force and Motion I:** pages 118-123; Problems #(31 & 34 are optional), 45, 77, 86

**Chapter 6 – Force and Motion II:** pages 140-147; Problems #8, 41, 42, 45, 48, 74, 82

**Chapter 7 – Kinetic Energy and Work:** pages 170-172; Problems #2, 3, 28

**Chapter 8 – Potential Energy and Conservation of Energy:** pages 202-204; Problems #1, 19, 20, 27

**Chapter 9 – Linear Momentum:** pages 248-252; Problems #18, 60

**Chapter 21 – Electric Charge:** pages 625-628; Problems #3, 14, 25, 27, 44