

AP PHYSICS II – SUMMER ASSIGNMENT

Electromagnet Project: (20 pts)

Using a budget of not more than \$10, make the strongest electromagnet you can make, as measured by the weight that the magnet can hold. Bring your finished product to school in August. I encourage the use of recycled parts.

Vectors: (20 pts)

We will make heavy use of $\hat{i}, \hat{j}, \hat{k}$ notation in this course. Read the PDF for Chapter 3, then answer Questions 1-10 on pg. 53, and Problems 13, 33 and 35. If you do not fully understand these before the start of school, don't worry. Just try your best, and we will discuss it in the first two days back.

Getting to know you: (10 pts)

Tell me one or two things about you that I might not already know, but that you wish your teachers knew about you. Also, perhaps you could explain why science (or physics) matters to you, and what you hope to get out of my class.

Have fun!

Dr. Vallette