

Summer Assignments for IB Physics SL1 (1st Year)

If you are going into your first year of IB Physics I this coming fall:

1. Visit Mr. Gray's website. (Use LHS links, or search Google for "Mr. Gray Jeffco." Find the summer assignment link on the drop down menu for Honors/IB Physics SL1 1 on my website.
2. Obtain a **graph composition notebook journal** and set it up as follows. Put your name on the outside, and inside covers, put the title, "Graded Assignments" on the top of the first page and break it into four columns (One wide on left, then, three narrow). Item, Page Number, Student Grade, and Teacher Grade. Number the front and back of the first 20 pages, so you have up to 40 numbered pages. Go to page 6 and label the top of it "Physics Phormulas", this is where you will write down all the formulas we will use in physics this year. Turn to page 8, and fold it down into a triangle.
3. From the Physics Summer Assignments tab on Mr. Gray's Website you will see Ch.1 for the text book "Physics" by Cutnell and Johnson, as well as the solutions for the Ch. 1 questions. Use these resources to complete the following summer assignment, starting on page 10 of your journal.
4. Read Chapter 1 (pgs 1 -20) of the Cutnell and Johnson text. Beginning on the first open page of your journal (which should be page 11), take detailed and specific notes as you read chapter 1 of the text (make sure to put the title "Chapter 1 Notes" at the top of this page). You may need more than one journal page and we want to conserve natural resources so please use the back sides of the journal pages. This assignment should give you a good idea of the math level of the course. Next, turn to the "problems" section page 22. Complete the following questions while checking your answers from the solutions page.

Problems: 5, 7, 11, 13, 21, 29, 51, 53, and 55

Attempt to complete these problems without any help whatsoever. Next, use the text reading and notes for clues to help. Finally, use the solutions page and make corrections. This pattern will be common as you learn to solve physics problems this year. The point in doing homework problems is to learn the concept, not just to get the right answer on the page.

I look forward to meeting you in August, Mr. Gray