

DUE: August 7 – Your first day of school. Assignments submitted late will be subjected to a penalty. Since our policies for 2023-2024 have not been finalized, the penalty is to be determined. In order to avoid this unknown penalty, have it ready on first day of school.

AP Physics C – Summer Work – Read carefully and thoroughly. Your ability to follow the below directions without asking questions is indicative of your ability to be successful in the AP Physics C course. This is individual work. You cannot submit the same photo as another student. This work will only have your name on it so it must be only your work. I adhere strictly to the Northview Honor Code so please familiarize yourself with it in the student handbook if necessary.

Your summer assignment is to experience physics (with documentation of course 😊).

Your task is to take eight (8) HIGH-QUALITY photos of four (4) personal experiences with physics that you have over the summer. It could be something simple like changing a flat tire or more exciting like riding a roller coaster. YES, it must happen during summer of 2023, between the end of school and beginning of school.

Your photos will be evaluated by Mr. Kemp for interest/uniqueness/quality. Low interest (boring, simple) or photos with an evident lack of creativity **will receive deductions**.

To be submitted:

For each of the four (4) experiences, take one (1) photo that beautifully captures the experience/phenomenon and another “selfie” style photo that shows you physically present for the experience. For example, a beautiful photo of a roller coaster and a selfie style photo of you in line to ride the coaster. For those new to the idea of a “selfie”, it requires that YOU be in the photo – yes YOU, even if you are shy. The purpose of the selfie is to provide evidence that you were present at that time/location. Nothing else is acceptable so please do not ask. Each of the 4 experiences will have two photos to reach the total of eight. Along with each pair of photos, write a paragraph (minimum 5 sentences so a total minimum of 20 sentences) that details the obvious physics (and science in general) of the experience. If you can't come up with 5 sentences, then perhaps the phenomena is just not that unique. This **MUST** be hand-written (**MUST** be legible). Legible hand-writing is important in a course that requires you to show mathematical and written justification for the work you do.

IF you prefer not to print your photos, you can wait until I have created a Teams assignment for easy uploading of digital photos. Your hand-written explanations are still due on August 7, but photos can be submitted after Teams is set up.

DUE on Monday, August 7, 2023, the first day of school.

NOTE:

First semester (Mechanics) will be a review of topics studied in AP1 but with the addition of calculus and more complex problems.

Second semester (Emag) will be entirely new for you and will require substantially more calculus than first semester. It will be the hardest work that you do with the most complicated calculus (integrals). Your lack of exposure to these topics in AP1 will provide an additional hurdle so please have the proper mindset as you prepare yourself for this course.

All of our tests will require the memorization of equations. You will not be allowed to use graphing calculators on our tests, only scientific calculators with a memory clear.