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**From:** James Callahan

**To:** E-mail List "15-16 Weekly Announcements"

**Subject:** Callahan Physics 11/30

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Hello everyone! I hope that you all had a lovely Thanksgiving and were able to sit back and relax for a few days like I was!

### **This Week**

We are continuing to explore Newton's Laws. We start back up with one of the trickier problem-types of this unit, Vertical Free-Body Diagrams. We will spend approximately two blocks looking at vertical forces and their application with Newton's 2<sup>nd</sup> Law. We will then have a take-home quiz on Newton's 2<sup>nd</sup> Law. In the second half of the week, we will be starting Newton's 3<sup>rd</sup> Law about Action-Reaction Forces (Sub-Unit 3.2). Next week, we will go on to Newton's 1<sup>st</sup> Law (the laws are a bit out of order numerically but we'll cover them all!).

### **Quiz 3.1: Take-Home**

We are trying out take-home quizzes to alleviate the in-classroom time-constraints and stress associated with testing. This will be our pilot quiz under this new method. With take-home assessments comes the big question of whether students can collaborate and how much they can collaborate. I know that you will probably get this question a lot from your students, so here is what I will be telling my classes:

Students are allowed to work together on take-home quizzes under the following conditions:

- 1) Students should not under any circumstances copy another student's work. Everything written down on the student's paper should be in their own writing and from their own knowledge.**
- 2) Anything that a student turns in on a take-home quiz must be backed up with all of their supporting work.**
- 3) If a student cannot explain absolutely everything that is written on a take-home quiz they hand in, it will be considered academic dishonesty.**

Please let me know of any suggestions you have about making take-home quizzes better after this trial run!

### **Hand-outs**

Students will be given the following by the end of the week. All of these can be found on my website:

- Sub-Unit 3.1 Problems
- Sub-Unit 3.2 Problems
- Newton's 3<sup>rd</sup> Law Demo Activity Sheet

As always, please let me know if you have any questions, comments, or concerns! I am always grateful for positive/constructive feedback! Happy December!

Thanks,  
James Callahan