

## Science-1A Lecture: Week-9, Monday, October 4, 2021

**I passed out Quiz 4 yesterday. Be sure that you have done it before you start the Physics Midterm discussed in this note.**

**The Physics Midterm will be passed out next week.  
Make sure you catch up on any missed quizzes before then!**

The Physics Midterm will consist of questions similar those you have seen in the Practice Quizzes at <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/Quiz1Preparation.pdf> <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-1.pdf> and <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-1-Solutions.pdf> . <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-2.pdf> and <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-2-Solutions.pdf> . <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-3.pdf> and <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-3-Solutions.pdf> . <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-4.pdf> and <https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/SampleQuestions-Quiz-4-Solutions.pdf> .

**Don't forget that there are a few additional questions that might appear on the Physics Midterm.**

They are at

<https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/PossibleAdditionalQuestionsForPhysicsTest.pdf>  
<https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/PossibleAdditionalQuestionsForPhysicsTest-Solutions.pdf>

Also, make sure that you are familiar with the math advice provided at

<https://yosemitefoothills.com/Science-1A/Handouts/Week-01/AlgebraRefresher.pdf>

and also at

<https://yosemitefoothills.com/Science-1A/QuizAndTestPractice/AdviceForSolvingCalculations.pdf>

Finally, follow the boxed note at the start of the Week-2 Monday lecture at

<https://yosemitefoothills.com/Science-1A/OnlineLectureAndLabNotes/Week-02-Lecture-Monday-August-16-2021.pdf>

for an explanation of the Equation Sheet and its use.

**Besides reviewing the practice material listed above, be sure to look over any corrections I made to your quizzes so that you can avoid making the same mistakes again. You should not try the Physics Midterm until you have submitted Quizzes 1-4 and I have had a chance to give you feedback about how you did on them.**

Only a clean Equation sheet is to be used when taking the Quizzes and Tests.

The calculation answer style shown in the solutions sheets is the style that should be followed when writing calculation solutions. I will be fussy about writing the starting equation, and if required, alterations to it. Also, the setup should have proper mathematical form and values should be written with their units using parentheses if appropriate. The final answer should have 4 or 5 significant figures unless more are requested, and of course, answers should have the correct units.

This Midterm has quite a few calculations questions. Be ready for them with the knowledge that you will see very few in the Chemistry half of the course. It is kind of like eating the food you need, but don't like, so you can enjoy your dessert later. (Half of the Final Exam will also have physics calculations questions, so don't clear memory about how to do them.)

The calculation questions allow more opportunities for partial credit than do fill-in-the-blank and true-false questions. Understanding the logic behind the fill-in-the-blank and true-false questions is more effective than just trying to memorize answers. Our brains remember things by association with existing knowledge.

Understanding science is largely a matter of knowing the vocabulary of science, so many questions are about the special words used in physics. Also, remember, the questions on the quizzes and tests may look like the practice questions, but may have wording changes that require you to read carefully and think!