

## **AP PHYSICS C: MECHANICS DESCRIPTIVE GRADING CRITERIA**

*“Whatever you do, do your work heartily, as for the Lord and not for people, knowing that it is from the Lord that you will receive the reward of the inheritance. It is the Lord Christ whom you serve.”*

*Colossians 3:23-24*

AP Physics C: Mechanics is a calculus-based, college-level physics course. It covers Kinematics, Forces and Translational Dynamics, Work, Energy, and Power, Linear Momentum, Torque and Rotational Dynamics, Energy and Momentum of Rotating Systems, and Oscillations. The purpose of this course is to help students develop a deep understanding of the foundational principles that shape classical mechanics. The course is designed to enable students to develop the ability to reason about physical phenomena using important science practices, such as creating and analyzing representations of physical scenarios, deriving mathematical relationships and equations, making and justifying qualitative claims, designing experiments, analyzing data, and using mathematics to solve problems.

The framework of the classroom in AP Physics C: Mechanics will be as follows:

- Approximately 1 day of in-class instruction on sequential topics in physics
- Approximately 1-2 days in the physics laboratory designing and conducting inquiry-based laboratory investigations and making first-hand observations, data collection, analysis, and interpretation.
- Approximately 1-2 days in the physics classroom solving problems quantitatively and qualitatively while practicing reasoning skills and argumentation, deriving mathematical relationships, the application of mathematical routines, and analyzing theoretical relationships.

Each week of AP Physics C: Mechanics, the students will complete a weekly ten problem **Multiple Choice Assessment on AP Classroom**. As these are all assessments of the student’s understanding, it is expected and demanded that all work - both inside and outside of the classroom - be authentically and genuinely the student’s own work to reflect their own understanding. As the second semester progresses closer to the AP Physics C: Mechanics Exam, weekly assessments may be in the form of complete AP Physics C: Mechanics Exams.

### **AP Physics C: Mechanics Score Calculator**

<b>A</b> <b>Outstanding</b>	<b>56%</b>
<b>B</b> <b>Good</b>	<b>43%</b>
<b>C</b> <b>Satisfactory</b>	<b>36%</b>
<b>D</b> <b>Unsatisfactory</b>	<b>26%</b>
<b>F</b> <b>Failing</b>	<b>0%</b>

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<b>Multiple Choice Assessments</b>	
<b>Points Correct</b>	<b>Percentage</b>
10	100%
9	98%
8	95%
7	92%
6	90%
5	85%
4	75%
3	65%
2	60%
1	55%
0	50%