

COURSE TITLE: **AP Physics 1: Algebra-based**

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## **Forsyth County Schools Course Syllabus 2020/2021**

**Course Description:** AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on, inquiry-based laboratory work as they explore concepts like systems, fields, force interactions, change, conservation, and waves. Students are expected to take the AP exam in May. This course conforms to College Board topics for the Advanced Placement Physics 1 Examination. This course requires a rigorous college level lab component and utilizes a college text.

**Standards:** The College Board Standards for Physics 1 are available on Its Learning in the Course Information Folder. They can also be obtained at the following link: <https://apstudent.collegeboard.org/apcourse/ap-physics-1>

**Required Assignments:** Students will have a weekly homework, along with homework and quizzes administered through the school's secure online learning platform and the commercial WebAssign platform.

**Availability for Extra Help:** I am available during IF or in the mornings at 7:30 am.

**Makeup Work:** Make up work is defined as work assigned during a student's absence, not work assigned prior to an absence. The student has five (5) school days upon returning to school to complete make-up work. The teacher has the discretion to grant a longer period to make up work, if there are extenuating circumstances.

### **Grading Calculations:**

**Non-EOC Course Average** = 50% (1<sup>st</sup> Sem. Course Work) + 50% (2<sup>nd</sup> Sem. Course Work)  
1<sup>st</sup> and 2<sup>nd</sup> Semester Course Work = 75% Summative + 25% Formative

### **Grading Policy:**

A = 90 – 100

B = 80 – 89

C = 70 – 79

Failing = Below 70

*Formative Assessments include, but are not limited to homework, class work, practice tests, rough drafts, and sections of projects/research papers/presentations.*

*Summative Assessments include, but are not limited to unit tests, final projects, final essays, final research papers, and final presentations.*

**Learning Resources/Textbook(s):** All learning resources, both print and digital, are meant to support and enhance the student learning experience of this class. Below are the names of the textbooks and websites that will be used in this course. Some of the web-based resources require parent permission per federal regulations. Federal laws that guide parent permission requirements are as follows:

- **Children's Internet Protection Act (CIPA):** The school is required by CIPA to have technology measures and policies in place that protect students from harmful materials including those that are obscene and pornographic. Any harmful content contained within inappropriate sites will be blocked. <http://fcc.gov/cgb/consumerfacts/cipa.html>

- **Children’s Online Privacy Protection Act (COPPA):** COPPA applies to commercial companies and limits their ability to collect personal information from children under 13years of age. No personal student information is collected for commercial purposes.  
<https://www.ftc.gov/tips-advice/business-center/guidance/complying-coppa-frequently-asked-questions-0>
- **Family Educational Rights and Privacy Act (FERPA):** FERPA protects the privacy of student education records and gives parents the right to review records. Under FERPA, schools may disclose directory information in certain circumstances.  
<http://www2.ed.gov/policy/gen/guid/fpco/ferpa>

Please review the resource list. Each website related to the curriculum resources is provided along with their privacy policies. Should you have any questions regarding these resources immediately contact the course teacher via email or phone.

Name of Resource*	Digital	Privacy Policy
Physics: Principles & Problems - Glencoe (2009)	<a href="#">Open Source eReader</a>	<a href="#">Terms of Service</a>
College Physics by Serway/Chris Vuille	AP Physics <a href="#">Cengage/NGLsync</a>	<a href="https://www.cengage.com/privacy">https://www.cengage.com/privacy</a>
College Physics - Reasoning and Relationships - Cengage (2015)	AP Physics <a href="#">Cengage/NGLsync</a>	<a href="https://www.cengage.com/privacy">https://www.cengage.com/privacy</a>
Physics for Scientists & Engineers - Cengage (2014)	AP Physics <a href="#">Cengage/NGLsync</a>	<a href="https://www.cengage.com/privacy">https://www.cengage.com/privacy</a>
OpenStax	<a href="#">On-level Physics</a> <a href="#">Algebra-based College Physics</a>	<a href="#">Terms of Service</a>
Georgia Virtual School	On-level <a href="#">Physics</a> <a href="#">AP Physics I</a> <a href="#">AP Physics II</a> <a href="#">AP Physics C Electricity</a> <a href="#">AP Physics C Mechanics</a>	<a href="http://www.gavirtuallearning.org/terms.aspx">http://www.gavirtuallearning.org/terms.aspx</a>
Discovery Education	<a href="#">Classlink Access</a> SP1-SP6	<a href="#">Discovery Media</a> Terms of Use
NewsELA Physics	<a href="#">Classlink Access</a> CLEVER	<a href="#">NewsELA Privacy Policy</a>
CK-12 FlexBook: Physics	<a href="#">Classlink Access</a> CLEVER	<a href="#">CK-12 Terms of Use</a>
Georgia Public Broadcasting Streaming Inquiry Labs	GPB <a href="#">Chemistry &amp; Physics</a>	<a href="#">GPB</a>

*\* The following resources are county approved. These resources may vary by school due to sequencing, pacing, curriculum design, and/or individual needs of students.*

Parent Initial for Approval **	Name of Resource	Website	Privacy Policy
	M.I.T. OpenCourseware	<a href="#">M.I.T. Science, Technology, &amp; Society</a>	<a href="#">Privacy Policy</a>

	<b>Physics and Engineering Solutions</b>	<a href="#">Relevancy Textset</a>	<a href="#">NewsELA Privacy Policy</a>
	Veritasium	<a href="#">Veritasium Channel</a>	
	TED-ED	<a href="#">TED-ED Channel</a>	
	Kurzgesagt	<a href="#">Kurzgesagt channel</a>	
	Hyperphysics	<a href="#">Hyperphysics Website</a>	

**\*\* The following resources are web-based resources that require parent permission. By signing the syllabus, the parent is approving these resources. Should you have any questions regarding any of these classroom resources, please contact your student's teacher via email.**

I, \_\_\_\_\_, have read this course syllabus and approve of its contents. I agree to allow my student to use each of the classroom resources listed in the learning resource section. I will support my student following the classroom expectations outlined in this course syllabus. I agree that I am the person who is legally allowed to consent for my student whose name is listed below.

\_\_\_\_\_  
Student's Name (Print)

\_\_\_\_\_  
Parent's Name (Print)

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date