

COURSE TITLE: **Physical Science**

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

**Course Description:** This course is designed as a survey course of chemistry and physics. This curriculum includes the more abstract concepts such as the conceptualization of the structure of atoms, motion and forces, and the conservation of energy and matter, the action/reaction principle, and wave behavior. Students investigate physical science concepts through experience in laboratories and field work using the processes of inquiry. The state mandated Georgia Milestones End of Course Assessment is required and counts 20% of the student's overall course grade.

**Standards:** Course Standards can be found at [www.georgiastandards.org](http://www.georgiastandards.org)

### **Classroom Supplies:**

- metric ruler
- scientific calculator
- colored pencils
- BYOT Device
- Ear plugs for BYOT Device
- pencils & pens
- notebook and paper
- scissors
- glue stick

**Required Assignments:** This course consists of 9 units. Within each unit students will be expected to complete assigned homework, quizzes, labs, and unit tests. A test will be given after the completion of each unit. Unit test dates will be announced and posted several days in advance. Laboratory reports, homework, and homework quizzes are daily grades. Depending on the nature of assigned projects, they will either be a formative or summative grade.

This course is split into 9 units:

1. Measurement & Nature of Science
2. Atomic Structure & Periodic Table
3. Atomic Bonds & Chemical Reactions
4. Atomic & Molecular Motion
5. Nuclear Reactions
6. Energy
7. Force, Mass, & Motion
8. Waves
9. Electricity & Magnetism

**Availability for Extra Help:** Help sessions will be held Tuesdays 7:45 AM. You may also schedule a help session for another day upon request.

**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:

**EOC Course Average** = 40% (1<sup>st</sup> Sem. Course Work) + 40% (2<sup>nd</sup> Sem. Course Work) + 20% EOC  
1<sup>st</sup> & 2<sup>nd</sup> Semester Course Work = 80% Summative + 20% 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 13 years 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
Georgia Virtual School	Physical Science <a href="#">HS</a>	<a href="http://www.gavirtualearning.org/terms.aspx">http://www.gavirtualearning.org/terms.aspx</a>
Discovery Education	<a href="#">Classlink Access</a>	<a href="#">Discovery Media</a> Terms of Use
NewsELA Physical Science	<a href="#">Classlink Access</a> CLEVER	<a href="#">NewsELA Privacy Policy</a>
CK-12 FlexBook: HS Physical Science	<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
	Engineering and the Periodic Table	<a href="http://www.oercommons.org/courses/engineering-and-the-periodic-table-2/view">http://www.oercommons.org/courses/engineering-and-the-periodic-table-2/view</a>	NA
	Engineering An Empire	<a href="https://www.commonsemmedia.org/tv-reviews/engineering-an-empire">https://www.commonsemmedia.org/tv-reviews/engineering-an-empire</a>	
	M.I.T. OpenCourseware	<a href="http://www.mit.edu/ocw">M.I.T. Science, Technology, &amp; Society</a>	<a href="#">Privacy Policy</a>
	Fighting Addiction with Chemistry	<a href="#">Parental Guide</a>	<a href="https://www.acs.org/content/acs/en/privacy.html">https://www.acs.org/content/acs/en/privacy.html</a>
	FlipGrid	<a href="https://info.flipgrid.com/">https://info.flipgrid.com/</a>	<a href="https://legal.flipgrid.com/privacy.html">https://legal.flipgrid.com/privacy.html</a>
	Khan Academy Chemistry	<a href="https://www.khanacademy.org/science/chemistry">https://www.khanacademy.org/science/chemistry</a>	<a href="#">Privacy Policy</a>
	Youtube (Tyler DeWitt, Crash Course, etc.)	<a href="#">YouTube</a>	<a href="#">community guidelines</a>
	USA Testprep	<a href="#">Classlink Access</a> CLEVER On-level	<a href="#">user agreement</a>
	Nearpod	<a href="#">Classlink Access</a> CLEVER On-level	<a href="#">terms and conditions</a>
	CK12	<a href="#">Classlink Access</a> CLEVER On-level	<a href="#">CK-12 Terms of Use</a>
	pHet	<a href="#">Classlink Access</a> CLEVER On-level	<a href="#">terms of use</a>
	Physics Aviary	<a href="https://www.thephysicsaviary.com/index.html">https://www.thephysicsaviary.com/index.html</a>	N/A
	GimKit	<a href="https://www.gimkit.com/">https://www.gimkit.com/</a>	<a href="#">terms of service</a>
	Wakelet	<a href="https://wakelet.com/">https://wakelet.com/</a>	<a href="#">terms of service</a>
	Microsoft Teams	<a href="#">microsoft teams link</a>	<a href="#">microsoft service agreement</a>

	Remind	<a href="https://www.remind.com/">https://www.remind.com/</a>	<a href="#">terms of service</a>
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**\*\* 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