

## Forsyth County Schools Course Syllabus 2021/2022

COURSE TITLE: International Baccalaureate Chemistry	
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**Course Description (GaDOE):** Standard level designed to introduce students to the theories and practical techniques involved in the composition, characterization, and transformation of substances. As the central science, the chemical principles investigated underpin both the physical world in which we live and all biological systems

**Standards:** *Course Standards can be found on p. 27*  
[https://www.ibchem.com/root\\_pdf/Chemistry\\_guide\\_2016.pdf](https://www.ibchem.com/root_pdf/Chemistry_guide_2016.pdf)

**Required Assignments:** [students will be notified of any changes]

<p><b>First Semester</b></p> <ul style="list-style-type: none"> <li>● Topic 1 - Stoichiometric Relationships</li> <li>● Topic 2 - Atomic Structure</li> <li>● Topic 3 - Periodicity</li> <li>● Topic 4 - Chemical Bonding and Structure</li> <li>● Topic 5 - Energetics/Thermochemistry</li> <li>● Topic 6 and 7 - Chemical Kinetics &amp; Kinetics</li> <li>● IA #1</li> </ul>	<p><b>Second Semester</b></p> <ul style="list-style-type: none"> <li>● Topic 8 - Acids &amp; Bases</li> <li>● IA #2</li> <li>● Topic 9 - Redox Process</li> <li>● Topic 10 - Organic Chemistry</li> <li>● Topic 11 - Measurement and Data Processing</li> <li>● IB Practice Exam / Review</li> </ul>
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<p><b>Summative</b></p> <ul style="list-style-type: none"> <li>● end of unit assessment</li> <li>● lab / project (1 per semester)</li> <li>● midterm (fall) and final (spring) exams</li> </ul>	<p><b>Formative</b></p> <ul style="list-style-type: none"> <li>● homework / classwork</li> <li>● quizzes</li> <li>● lab / project (as appropriate)</li> </ul>
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**Required Materials:** scientific calculator, composition notebook, pen/pencil, paper, suggest a 3 ring binder, 1 to 1/2 inches.

**Availability for Extra Help:** mornings, 7:45-8:15 [subject to change due to meetings and duty; students will be notified of changes]

**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:**

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, labs, investigations, 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, formal lab reports, 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 in 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/quid/fpco/ferpa>

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

Name of Resource*	Hard copy/Website	Privacy Policy
Glencoe <i>Chemistry: Matter &amp; Change</i>	Class set of textbooks	Not applicable
Explore Learning	Digital supplemental material (accessed via ClassLink)	<a href="https://www.explorelarning.com/index.cfm?method=Controller.dspPrivacy">https://www.explorelarning.com/index.cfm?method=Controller.dspPrivacy</a>
Newsela	Digital supplemental material (accessed via ClassLink)	<a href="https://newsela.com/about/privacy-policy/">https://newsela.com/about/privacy-policy/</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
	Kognity (IB textbook and resources)	<a href="http://kognity.com">kognity.com</a>	<a href="https://kognity.com/privacy-policy/">https://kognity.com/privacy-policy/</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="http://khanacademy">khanacademy</a>	<a href="#">Privacy Policy</a>
	Youtube (Tyler DeWitt, Crash Course, etc.)	<a href="http://YouTube">YouTube</a>	<a href="#">community guidelines</a>
	USA Testprep	<a href="http://USA Testprep">USA Testprep</a>	<a href="#">Privacy Policy</a>
	Nearpod	<a href="http://Nearpod">Nearpod</a>	<a href="#">Privacy Policy</a>
	CK12	<a href="http://CK12">CK12</a>	<a href="#">CK-12 Terms of Use</a>

	PhET	<a href="#">PhET Simulations</a>	<a href="#">Privacy Policy</a>
	Physics Aviary	<a href="https://www.thephysicsaviary.com/">https://www.thephysicsaviary.com/</a>	NA
	GimKit	<a href="https://www.gimkit.com/">https://www.gimkit.com/</a>	<a href="#">Privacy Policy</a>
	Microsoft Teams	<a href="#">Microsoft Teams - Use your forsythk12.org email</a>	<a href="#">Privacy Policy</a>
	Remind	<a href="https://www.remind.com/">https://www.remind.com/</a>	<a href="#">Privacy Policy</a>
	ThingLink	<a href="https://www.thinglink.com/">https://www.thinglink.com/</a>	<a href="#">Privacy Policy</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 in 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