

COURSE TITLE: **IB Chemistry SL**

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Forsyth County Schools Course Syllabus 2020/2021

Course Description: The IB Chemistry SL course is a year-long, second-year chemistry course. This is a rigorous experimental approach to an in-depth study of chemical principles that underpin both the physical environment and biological systems, similar to a college-level introductory chemistry course. Emphasis is placed on investigational skills and data processing. Students are expected to take the IB Chemistry exam at the completion of this course.

The course design is based upon lecture, class discussion, problem solving, laboratory, and evaluation. Demonstrating knowledge in chemistry will be accomplished by discussion, short answer assignments, and evaluations. Problem solving skills will be evaluated through assigned exercises and evaluations. Critical thinking skills will be demonstrated through creating laboratory hypothesis and procedures for testing those hypothesis, as well as through data interpretation and scenario evaluation.

Standards: Course Standards can be found at

<https://www.ibo.org/globalassets/publications/recognition/chemistrysl2016englishw.pdf>. Additionally, standards will be posted in the itsLearning course.

Required Assignments:

First Semester	Second Semester
• Topic 1 - Stoichiometric Relationships • Topic 2 - Atomic Structure • Topic 3 - Periodicity • Topic 4 - Chemical Bonding and Structure • Topic 5 - Energetics/Thermochemistry • Topic 6 - Chemical Kinetics	• Topic 7 - Chemical Equilibrium • Topic 8 - Acids & Bases • Topic 9 - Redox Process • Topic 10 - Organic Chemistry • Topic 11 - Measurement and Data Processing • Option • IB Practice Exam / Review

Each unit will typically contain the following assignments, as appropriate.

Summative	Formative
• end of unit assessment • lab / project (1 per semester) • midterm (fall) and final (spring) exams	• homework / classwork • quizzes • lab / project (as appropriate)

Availability for Extra Help:

- 7:45 AM -8:15 AM on the following mornings:
- by appointment

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% (1st Sem. Course Work) + 50% (2nd Sem. Course Work)

1st and 2nd Semester Course Work = 75% Summative + 25% Formative

Grading Policy:

A = 90 – 100

B = 80 – 89

C = 70 – 79

Failing = Below 70

Initials _____ (every page initialed by parent)

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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
Chemistry: Matter & Change - Glencoe (2008)	Review Only - No Digital Access On-level	Permissions
AP Chemistry - Cengage (2018)	Owl Access Advanced Placement	Permissions
Kognity	https://kognity.com/	https://kognity.com/privacy-policy/
Organic Chemistry - Cengage (2018)	Owl Access College Level	Permissions
OpenStax	Chemistry 2e (Honors)	Terms of Service
Georgia Virtual School	Chemistry On-level	http://www.gavirtualllearning.org/terms.aspx
Discovery Education	Classlink Access	Discovery Media Terms of Use
NewsELA Chemistry	Classlink Access CLEVER	NewsELA Privacy Policy
CK-12 FlexBook: Chemistry	Classlink Access CLEVER On-level	CK-12 Terms of Use
Chemistry: Matter & Change - Glencoe Solutions Workbook	It's Learning Access PDF	NA

Georgia Public Broadcasting Streaming Inquiry Labs	GPB Chemistry	GPB
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*** 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
	Flinn At-Home Lab Series	Flinn Scientific	https://www.flinnsci.com/about-us/privacy-policy/
	Chem Team Tutorial	www.chemteam.info	no permissions available
	Khan Academy Chemistry	https://www.khanacademy.org/science/chemistry	Privacy Policy
	Bozeman Science	YouTube	community guidelines
	NSTA Podcast for the Classroom	Click on Flicks	Policy
	M.I.T. OpenCourseware	M.I.T. Science, Technology, & Society	Privacy Policy
	HHMI biointeractive	Classroom Resources	Ed Framework In Progress
	flipgrid	https://info.flipgrid.com/	https://legal.flipgrid.com/privacy.html

**** 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

Initials _____ (every page initialed by parent)

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