



College Prep Chemistry (40.0510001)
Mill Creek High School
Mrs. Gallogly
Room # 1.507



School Website: www.millcreekhighschool.org
E-mail: Sandra_Gallogly@gwinnett.k12.ga.us

Course Philosophy


The underlying themes of problem solving, reasoning, communication that bridges everyday language to scientific language, and connections to real life situations are woven through the chemistry curriculum. Emphasis will be placed on open-ended exploration, modeling, and investigations.

Course Text

Glencoe Chemistry: Matter and Change. A fee of \$54.99 will be assessed for any damaged or lost text and/or CD.

Materials

The following materials and your textbook must be brought to class DAILY.

- > Loose leaf, 3-ring binder, and page dividers (Notes, HW/CW, Labs, Tests/Quizzes)
- > **Composition Notebooks (2)**
 You will use one composition book to complete your questions of the day, every day. The second will be your AKS log book; if you completed one last year, you will not need to purchase another – we will simply continue from your work in biology.
- >  Scientific calculator (one may be purchased for around \$10)
- > Blue or black pen and pencil

Grading









The final grade in this course will be determined by the following distribution.

Course Weight	Grading Scale
30% Tests and Projects	A 90-100
20% Daily (CW, HW, Quizzes)	B 80-89
30% Labs	C 75-79
20% Final Exam	D 70-74
	F below 70








Course of Study

Topic/Content	Textbook Chapters	Expected Time
Characteristics of Science	all	On-going
Matter	3, 13.3, 15	4 weeks
Atomic Theory	3, 4, 5, 25	5 weeks
Periodic Table	6, 7	2.5 weeks
Bonding	8, 9, 13.2	4.5 weeks
Chemical Equations	10	2 weeks

AKS**--Characteristics of Science**

-  Design and conduct scientific investigations
-  Apply standard safety practices for all classroom laboratory and field investigations
-  Use technology to collect, observe, measure and manipulate data and findings
-  Use valid critical assumptions to draw conclusions
-  Apply computation and estimation skills necessary for analyzing data and developing conclusions
-  Communicate scientific investigations clearly
-  Read scientific materials to establish context for subject matter
-  Discuss the importance of curiosity, honesty, openness, and skepticism in science and exhibit these traits in efforts to understand how the world works

--Academic Knowledge

-  Analyze the nature of matter and its classifications
-  Evaluate how the Law of Conservation of Matter is used to determine chemical composition in compounds and chemical reactions
-  Use the modern atomic theory to explain the characteristics of atoms
-  Use the organization of the periodic table of elements to predict the properties of elements
-  Predict how various factors affect the rate of a chemical reaction
-  Evaluate the motion and behavior of atoms and molecules in chemical and physical processes
-  Analyze properties that describe solutions and the behavior of acids and bases