

Chemistry

2019-2020



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Course Description

Welcome to Chemistry! This is a required science course taken by most students in their tenth grade year. Simply put, chemistry is the study of the composition and changes of matter in the world around us. In this class, you will embark on an adventure where you will learn not only chemistry, but also strategies and processes for problem solving that you can use your entire life. We will explore the main concepts of chemistry through the lens of a real world context using direct instruction, lab explorations, demonstrations and interactive assignments. Get ready to work hard, learn and have fun!

Required Materials

Supplies: 3-ring binder and notebook that is used specifically for chemistry class.

Calculator: A scientific calculator with an exponent key [EE] or [EXP] should be brought to class everyday.

*Cell phones cannot be used as a calculator.

- Recommended: TI-30XIIS
- *DO NOT PURCHASE: TI-30XS Multiview or TI-34 Multiview*

Textbook/Learning Resources

- Students will not be issued a copy of the textbook for this course. When used, the textbooks will be available in class. Physical copies of the textbook can be checked out from the instructor as needed.

Grading

Your final course grade in Chemistry will be based on the following four weighted categories:

1. Unit Assessments (70%)

- Summative grades on the assessment will be scored separately by learning target and entered into the gradebook. Each learning target will receive one summative score for every unit.
- The score for each learning target can be changed one time via relearning/reassessment opportunities prior to the deadline provided by the instructor. *See comments below under "Reassessment Opportunities."
- The most recent evidence for a learning target will be used in the final calculation of the grade.

2. Lab Activities (15%)

- Student will need to work collaboratively in a lab setting in order to demonstrate an understanding of lab techniques and content.

3. Formative Quizzes (5%)

- Formative quizzes will be scored separately and then entered into the gradebook. Each quiz will receive one score during the unit.
- The score for each quiz can be changed one time via relearning/reassessment opportunities prior to the end of unit deadline. *See comments below under "Reassessment Opportunities."
- The most recent evidence for a learning target will be used in the final calculation of the grade.

4. District 11 CSA (10%)

- Measured by score on the Common Summative Assessment (CSA).

Final Course Grades

Andover High School Grading Scale							
A	100% - 93.00%	B	86.99% - 83.00%	C	76.99% - 73.00%	D	66.99% - 63.00%
A-	92.99% - 90.00%	B-	82.99% - 80.00%	C-	72.99% - 70.00%	D-	62.99% - 60.00%
B+	89.99% - 87.00%	C+	79.99% - 77.00%	D+	69.99% - 67.00%	F	59.99% - 0.00%

Gradebook Marks

Gradebook Mark and Meaning	Gradebook Value
4 Advanced - Exceeding expectations on standard	100%
3 Proficient - Meeting standard at an acceptable level	85%
2 Developing - Progressing toward standard	75%
1 Novice - Beginning to understand content	65%
0 Insufficient - No evidence provided	50%

Grading modifications may be made for students with IEP or 504 plans.

Practice Work

- Practice may include worksheets, readings, review packets, video notes, and more.
- Practice will always be discussed and referenced in class, but may not always be collected. When collected, they will be evaluated either by the teacher, peers or student.
- Scores will be recorded in the gradebook to allow each student to track his or her progress, but homework does not count toward a student's final grade.
- Homework assignments, review packets and practice worksheets that are collected must be completed **before** the unit test in order to receive feedback. After the unit test, no practice work for that unit will be accepted.
- Lab activities will be collected and evaluated separately.

Formative Quizzes

- Quizzes will be scored in the same way as assessments and typically focus on one or two specific learning targets.

Reassessment Opportunities

- Reassessments, on unit tests and/or quizzes, are only available to students who put forth a consistent effort to complete practice work prior to taking the unit assessment or quiz.
- Prior to reassessment, students must complete corrections on the initial assessment and conference individually with the teacher.

Anoka-Hennepin Independent School District No. 11
Safety Procedures in Secondary School Science Classrooms

1. Written and verbal instructions concerning procedures and/or precautions are given for my protection. I will read and listen carefully, and follow all directions.
2. Experiments done in class are for instruction. They are planned in order to teach an idea. I will perform only authorized experiments.
3. I will handle only those chemicals or equipment for which I have received training. No control for gas, air, or water is to be turned on except for lab work. Electrical outlets are only to be used for electrical plug-ins; other inserts are dangerous.
4. Tasting, smelling, or mixing unknown substances can be very dangerous. I will not do so unless instructed to do so in a planned, approved experiment, with proper techniques.
5. Chemicals are labeled to identify them. I will always carefully read the label to be sure I am using the correct substance. To avoid contaminating chemicals, I will not return used or unused chemicals to reagent containers. I will dispose of chemicals as my teacher directs and never mix chemicals in the sink drain.
6. To avoid splattering when mixing acids, I will add acid to water.
7. Horseplay and practical jokes in the science classroom are dangerous and can be expensive. I will practice safe conduct in the classroom.
8. Fire is dangerous and care must be taken when working with it. I will not reach across a flame or bring a flammable substance near flames. I will confine long hair and loose clothing to prevent it from igniting. I know where the fire extinguisher is located and how to use it. All fires must be extinguished, gas off, and materials capped before departing from the classroom for a fire drill or other school activity. I will not carry any lighted splints away from the lab station.
9. Safety equipment (eyewash, shower, first-aid kit) is provided in the science classroom in case of an emergency. I know how and when to use this equipment.
10. Hot materials, such as glassware, hot plates, burners, and chemicals can cause serious burns. I will be extremely careful when working with these to prevent injury to others and myself.
11. I will be sure the open end of a test tube points away from anyone while the test tube is being heated or shaken. I will always heat test tubes evenly to prevent liquid from "shooting."
12. Broken glass is dangerous. I will use a broom and dustpan to immediately pick up all broken glass and place it in the broken glass container.
13. Safety goggles are required by law (MN Statutes, Section 126.20 [Ex. 1967, C14, S1-6]). Goggles must be worn covering the eyes during all activities using fire or glassware; mixing, handling or heating chemicals; chipping rock; or whenever danger exists to the eyes. I will wear my safety goggles unless permission to remove them is granted by the teacher.
14. I will wear other necessary apparel required for specific work, i.e. apron, gloves, shoes, outdoor gear.
15. If an incident should occur that results in injury to others or myself in the classroom or damage to equipment, I will immediately report it to my teacher, no matter how minor the injury or damage may appear. Chemical spills on skin or clothes should be flushed with water immediately. All accidents, cuts, or spilled chemicals should be reported immediately to the instructor.
16. I will not eat, drink, or chew gum in the science classroom. I will always wash my hands carefully after handling chemicals or animals.
17. I will use proper techniques and be careful with sharp instruments.
18. It is important to know the exits to be used in case of emergencies. Students must not sit in aisles, which would prevent emergency exit from the classroom. Likewise, projects, materials, or equipment must not be stored so as to slow room evacuation. I am familiar with exits and the appropriate action to take when the emergency signal is heard.

Acknowledgement of Classroom Policies and Procedures

We have read and understood the Chemistry Course Syllabus and the Anoka-Hennepin Safety Procedure Guidelines. We understand the requirements of the course and how this course will operate. We have visited the instructor's website/homepage and know how to find classroom materials and information.

Student's Printed Name: _____ Hour: _____

Student Signature: _____ Date: _____

Parent/Guardian Signature: _____ Date: _____