



# Chemistry Course Syllabus 2017-2018



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**I. Course Description:** This course covers the fundamental concepts of physical chemistry. This is a college preparatory class for students planning to attend a 4-year college/university. Students will be required to use higher level thinking skills and math applications to solve problems related to the properties of elements, compounds and mixtures, atomic structure, chemical bonding, chemical equations and stoichiometry.

*\*\*Mr. Sudbury & Mrs. Lowry's chemistry classes are "flipped" classrooms.* In a flipped classroom, the "schoolwork" happens at home and the "homework" happens in school. This means that there is no traditional daily lecture in my class. All my lectures have been placed in short videos that students watch *BEFORE* coming to class and upon arrival we can get to work on the topic right away. It is imperative to your success that you watch the videos as they are assigned. Not watching the videos means that you are not receiving the course material through lecture. Each video may have a paper or electronic quiz assigned. Students are accountable to watch the agenda to know when videos are assigned.

## II. "Textbook" / Resources:

- o MISD issued or personal iPad
- o Holt Modern Chemistry – Electronic Subscription (See your teacher for login instructions; access → <http://mv.hrw.com>)
- o Class iTunesU courses created by both Mr. Sudbury & Mrs. Lowry *on student iPad.* (← This is our primary resource; you need your iPad daily!!!)
- o Teacher websites listed above.

## III. Materials:

### Required:

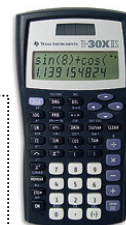
Space in a larger binder or dedicated 1" Chemistry binder w/ dividers & 1 subject composition book  
Pencil(s), Red Pen (*to peer edit with*), Highlighter, Stylus (*to "write" on your iPad.*)  
Headphones (*for the appropriate time in class when watching videos*)

### Recommended:

Scientific calculator (*graphing calculator not required, but ok*)  
1 box Kleenex, 1 roll of paper towels

### Recommended Ti-30xIIs

(An iPad app is NOT OK to use as a calculator daily in class. iPads are not allowed to be used during many quizzes, chapter tests and any state assessment. Students must be proficient with a normal scientific calculator.)



## IV. Semester Grading percentages:

A student's semester grade is calculated by using the average of the three grading period grades and the semester exam as follows:

First Grading Period: 26 %	Fourth Grading Period: 26 %
Second Grading Period: 27 %	Fifth Grading Period: 27 %
Third Grading Period: 27 %	Sixth Grading Period: 27 %
Semester Exam: 20 %	Semester Exam: 20 %

Each six-weeks term grade is calculated according the following percentages for tests, quizzes, labs and daily work.

Major Grades (Tests):	50%
Labs:	30%
Daily/Quizzes:	20%

Chemistry is a cumulative course, which means each lesson typically builds on the previous lesson. It is very important to keep up with the daily work and homework as we progress through the class. Often, students need to study outside of class to review concepts from class. **Major grades (test) are weighted 50%** of the course grade and typically require outside preparation and studying for these exams. To encourage studying and exam preparation, students are allowed to make a cheat sheet (handwritten on regular notebook paper) to use on the test. These will be turned in with the test and cannot be shared.

**Labs account for 30%** of the student grade. Labs can serve as hands on practice for concepts already learned or an inquiry based introduction to a new topic. Some labs are not taken up for a grade, however the lab can be used while taking a quiz covering the lab material to assess student learning. These lab quizzes and lab practical assignments will be recorded in the lab category.

**Daily Work/Homework / Quizzes combine for 20%** of the course grade. Even though it is the lowest weighted grade category, completing the daily/homework/quizzes leads to success on labs and tests. Successful participation in the daily assignments is fundamental to student success. Daily work is any course work that is assigned and should be completed in class. If that class work is not completed in class, it is then due at the beginning of class the next day. Daily class work is not considered homework. Homework includes any specific assignments that are assigned to be completed outside of the school day. Check the student calendar for due dates. Because my chemistry class is a flipped classroom, any homework (besides watching the video & taking notes) is rarely assigned. For flipped videos to be watched at home, students will be provided access to the videos 3+ days in advance so they can manage their time to complete the assigned videos and video quizzes. Video quizzes and regular classroom quizzes serve as short along-the-way knowledge checks that allow students to get feedback to see if they are learning the material they should know. Knowledge from the flipped lecture videos is assessed on online quizzes through either Quizstar or Skyward. Flip quizzes are always open note and students can retake QuizStar video quizzes to try and earn up to a 70% on a retake attempt. There are three attempts built into to each online quiz. Course instructors will adjust quiz weight and stamp sheets accordingly.

For daily work, homework, and lab activities the MISD late work policy is in effect. "Students may be assessed a penalty of no more than 30 points per day for up to one class period before a zero may be given for work not turned in on time."

## V. Class Participation

Daily student participation is required in chemistry. Students are expected to bring their iPads to class daily (with battery charged) so they can access course documents/videos/notes in iTunesU and the online chemistry textbook. There are many other daily activities where students will need to use their iPads such as review games online, flashcards, or accessing any number of chemistry or school related apps.

## VI. End of Course Exams

Mansfield ISD will comply with state law related to state standardized testing (TAKS/EOC/benchmarks/field tests/etc.)

## VII. Retest Policy:

In the event that a student fails a major test grade, students will be allowed to demonstrate proficiency of learning objectives by means of a retest. Students will receive their actual grade on the retest with a maximum grade being a 70. Students should (are encouraged to) attend tutorials and must correct their original test in order to be eligible for retakes. Retakes of exams will an alternative exam covering the same material. Retakes of exams will be proctored by a chemistry teacher. Times and locations of exam retakes will be posted by each teacher in advance of the due date. All retakes must be completed by the

announced due date and all retests must be completed before the end of the six-weeks grading term. The higher of the two grades will be recorded, maximum of 70%. Midterm or final exams are not included in the retake/retest policy. *(Since tests are worth 50% of your term grade, it is very important that you retest to improve to a 70% any time you fail a test.)*

### VIII. Lab safety:

Lab safety is the number one priority in the chemistry lab. A signed safety contract and a lab safety quiz score of 100% must be turned in before students can work in the lab. Students must always follow the safety directions and procedures of each lab and must not work on any part of the lab that has been excluded. During any drill or emergency, students must remain quiet and listen to any instructions given by the teacher. Students must report all accidents/spills/breakage to the teacher immediately. Failure to follow all safety guidelines (both in the safety contract and verbal) will result in the student being sent out of lab with an alternative assignment and returning to the lab when the safety concerns have been addressed.

### IX. Tardies and Attendance:

Tardies and attendance will be handled according to the student handbook and district policy. Classroom teachers mark attendance at the beginning of the period. If a student misses more than 20 minutes during any part of a class session, it is considered an absence. The attendance office classifies absences as excused, unexcused, or school activity depending on the circumstances that cause the absence. *Please reference the student handbook regarding attendance and how to turn in documentation to the attendance office.*

### X. Classroom Rules:

- **Wear your ID on a lanyard; Be in dress code; No cell phones; No headphones; Use iPads appropriately.**
- Come to class on time with appropriate materials (iPad, iPad charger, headphones, pencil, notebook/folder, composition notebook)
- **Be respectful** of the teacher and your classmates. Don't talk whenever the teacher is talking; listen to your peers when they have permission to talk.
- No food or drink in the classroom. (Bottled water ok) Outside food or drinks will be thrown away.
- Use of inappropriate language/gestures/etc. will result in disciplinary action.
- Follow all school rules stated in the student handbook. (Phones, other electronics, dress code, tardies, etc.)

### XI. iPad Expectations / Appropriate Use Guidelines:

The iPad is an excellent educational/instructional tool, but students must exhibit some self-discipline and self-control while using the iPad in class. Students who are off-task and distracted with their iPads will be referred to their assistant principal if teacher interventions are unsuccessful. Please follow these Guidelines:

- Bring your iPad to class every day...charged up. *(Charge it overnight)*
- iPads should be flat on your desk while using them.
- iPads should be set to maximum brightness while using them in class.
- Only use the iPad assigned to you and never share your password.
- Update your relevant apps when available, and change your wireless password before it expires.

### XII. Academic dishonesty

Cheating, copying, and plagiarism are all forms of academic dishonesty. (This includes allowing others to copy.) Also, taking, sending, or receiving screenshots or a photo of work constitutes academic dishonesty. Academic dishonesty will result in a score of "0" for all the students involved. In addition, it may be referred to the AP/Academic associate principal to be handled according to the student handbook and district policy.

### XIII. Make-up Work:

How works is graded when a student is absent depends on the type of absence:

**Excused Absence:** Work may be made up for up to a full grade of up to 100%.

Timeline for completion of the missed work will be completed as per the student handbook. (You get the # of days missed +1)

**Unexcused Absence:** Work may be made up for a maximum grade of to 70%

Timeline for completion of the missed work will be completed as per the student handbook.

*Students who are absent (either excused or unexcused) the day of a test will make up that test the next day they return to class.*

### XIV. Tutorial Times:

Each teacher will have posted tutorial times outside the classroom. Please attend tutorials as soon as you have any question or concern about any topic you don't understand before it "snowballs" and becomes a huge gap in your knowledge. Attendance in tutorial times can also earn you extra credit when you have the teacher sign a tutoring incentive form. Each hour of tutoring can be exchanged for 1) an extra late pass/drop quiz pass, OR 2) 10 points on a quiz, OR 3) 5 points on a test.

### XV. Extra Credit.

Because tutorials are available, and students should complete test retakes to improve their test grades to a 70%, extra credit is not offered outside of the tutoring incentive points available.

### XVI. General Chemistry Schedule, 2014-2015

**Text:** Holt *Modern Chemistry*

**Supplementary Materials:** iTunes U Course, Web site links, Holt *Modern Chemistry* on line activities

**Quizzes:** Usually 2 per week, but possibly one each class. **Tests:** At end of each chapter

Retests are offered by announcement and must be completed before the next chapter test and in the same six-weeks that they test was taken. Exact test dates are adjusted based on class needs. The dates will be posted and reminders sent via **Remind101**.

<u>TEKS*</u>	<u>Date</u>	<u>Chapter and Topic</u>
1, 2, 3	1 <sup>st</sup> Grading Period	1: Lab Safety / Matter and Change
1,4,11		2: Measurement and Calculations
6	2 <sup>nd</sup> Grading Period	3: Atoms & The Mole
7		4: Electron Arrangement
7, 8	3 <sup>rd</sup> Grading Period	5: The Periodic Law
		6: Bonding
		7: <u>Start:</u> Chemical Formulas & Compounds
	<b>Exam Week</b>	<b>Fall Semester Exam Week</b>
***** <b>Second Semester</b> ***** <b>Second Semester</b> *****		
8	4 <sup>th</sup> Grading Period	7: <u>Finish:</u> Chemical Formulas & Compounds
8		8: Chemical Equations, Ch. 19 Redox Reactions
8		9: Stoichiometry
10	5 <sup>th</sup> Grading Period	10: States of Matter
10		11: Gases & Gas Laws
		12: Solutions
10	6 <sup>th</sup> Grading Period	14-15: Acids & Bases
		16: Thermochemistry & Energy
12		21: Nuclear Chemistry
	<b>Exam Week</b>	<b>Spring Semester Exam Week</b>

**Common Assessments**  
Common assessments given by all chemistry teachers to assess student learning....Tentatively scheduled for:

9/12-13/2017  
10/24-25/2017  
2/5-2/6/2018