

Chemistry 2019-2020

Class Website: lms.pps.net

Course Description: NGSS chemistry is a year-long course that engages students in the composition, interactions, and mathematical representations of matter. A multi-dimensional teaching approach offers a grounding experience that connects material to real-world phenomena.

Course Outline:

Measurements and Calculations		Bonding
Modern Atomic Theory		Gases
Matter	Liquids and Solids	
Energy	Solutions	
Chemical Foundations Elements Atoms and Ions		Acids and Bases
Nomenclature	Equilibrium	
Chemical Reactions	REDOX Reactions	

Course Expectations:

Supplies:

Each student is expected to have 1 binder and one composition book. **A scientific calculator (can be checked out from the library) of your own is required.** NO SHARING OF CALCULATORS IS ALLOWED ON EXAMS.

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Absences

If you are absent and need to make up a lab/test/or presentation, the assignment can be made up during tutorial or with another instructor if you have a free period when they offer chem. Labs will be offered after the tutorial period following lab, usually within 1 week, unless other arrangements have been made.

Exams

Tests will be every chapter and will include tiered questions, in which students can select their own level of difficulty. In case of absence, tests can be made up , during tutorial or free periods. Any test, or lab submitted on-time, can be corrected for a maximum score of 80%. (½ point will be earned for every corrected point) Chemistry is cumulative, and tests should be corrected before the next test is taken, but can only be corrected until the end of the quarter.

Homework

All classwork and homework assignments will be completed in a binder on the handouts provided. Your homework grade will come from in-class quizzes. Homework can be used on these quizzes so completing the homework (on your own) will be of great value.

Late Assignments

Students are considered late if they are not in their seats by the time the bell rings. Assignments are expected to be turned in on time.

Behavior

Because this is a class that will integrate lab activities, it is especially important for students to be on their best behavior. Safety is a major concern for every student in the class. Respect for your classmates is expected of you. Disrespect of any kind for another student or their belongings will not be tolerated. If students are found goofing off or exhibiting horseplay in the lab, they will be immediately removed from the lab and they will be required to attend tutorial to make up the lab. Labs are only available for makeup until the end of the following week. Academic honesty is expected of students at all times. Any student caught cheating will receive an automatic zero on the assignment and referred to the Vice Principal.

CELL PHONE POLICY:

Cell phones will not be allowed in class at any time. Students may earn 1 point per day to be applied to their final grade for voluntarily storing their phone in a designated area. If students are found using a cell phone in class, it will be immediately confiscated and sent to the Vice Principal's office.

Per Student Handbook.

1st violation - Phone is turned in and stored at VP office for the rest of the day. The incident will be entered into Student Information Systems as a referral

2nd violation - Phone is turned in and stored at VP office for the rest of the day. Parent or guardian must come to pick up the cell phone. The incident will be entered into Student Information Systems as a stage 2 referral

3rd violation - Student will lose their right to have their cell phone or electronic device on school campus and it will be entered into the system as a stage 3 referral.

Grading

Notebook(Homework/Notes/daily quizzes)	10 %
Current Events	10 %
Lab and Safety Procedures	5 %
Exams/Labs/Projects	75 %

Because this is chemistry for all, in an effort to provide an equitable learning experience, students will be allowed to use a percentage of their grade to access a scaffolded version of the assignment. Students with accommodations and/or modifications will receive assignments in accordance with their IEP or 504.

1)Students may agree to a maximum score of 90% of an exam grade to have access to a pre-filled note sheet during the exam.

2)Students may agree to a maximum score of 90% of a lab write-up grade to have access to a fillable lab write-up, including sentence starters.

Honors Option

Students are eligible for honors credit if the following criteria are met...

- Student has never exhibited academic dishonesty
- Student completes a poster board to accompany their science fair project by the end of first semester
- Student chooses un-scaffolded test and lab options (Does not apply to students with accommodations for scaffolded assignments).

Parent/Guardian Signature: _____ Date:

Student Signature: _____ Date:

**Science Safety Agreement
Franklin High School**

Chemistry

Science is a hands-on laboratory class. Many laboratory activities require the use of hazardous chemicals, materials, and equipment. Safety in the science classroom is the number one priority for students, teachers, and parents. To ensure a safe science classroom, a list of rules has been developed and provided for you in this science safety agreement. These rules must be followed at all times! Please read through these rules carefully. After reviewing the rules, please have the agreement signed by both you and a parent or guardian and return to your science instructor.

General Safety Guidelines

- Perform only those experiments and procedures authorized by the instructor.
- Be properly prepared to conduct all experiments. Pay attention to laboratory safety instructions and be sure you understand what you are doing before you proceed. Know the location of the SDS and be familiar with what the sheets indicate for the hazardous chemicals being used.
- Conduct yourself in a responsible manner at all times. No horseplay, or other fooling around should ever occur in the laboratory.
- Wear appropriate eye protection, as directed by the teacher, whenever working in the laboratory or in field experiments such as rocket launches. Safety goggles must be worn during hazardous activities involving caustic/corrosive chemicals, heating of liquids, and other activities that may injure the eyes.
- Keep hands away from face, eyes, and clothes while using solutions, specimens, equipment, or materials in the laboratory.
- Splashes and fumes from hazardous chemicals present a special danger to people who wear contact lenses. Therefore, it is preferable for students to wear regular glasses (inside splash-proof goggles, when appropriate) rather than contact lenses during all class activities or purchase personal splash-proof goggles and wear them whenever exposure to chemicals or chemical fumes is possible.
- Gloves must be worn at all times. Students with open skin wounds on hands must wear gloves or be excused from the laboratory activity.
- Know the locations of fire extinguishers, gas shutoff, fire blanket, eyewash, safety shower, and first aid kit. Emergency exits and aisles must be kept clear at all times.
- Confine or securely tie hair that reaches to the shoulders. Roll long sleeves above the wrist. Long, hanging necklaces, bulky jewelry, and excessive or bulky clothing should not be worn in the laboratory.
- Do not eat food, drink beverages, or chew gum in the laboratory area.
- Work areas and equipment should be kept clean and tidy at all times. Bring only materials specified by your instructor to the work area. Other items such as books, purses, backpacks, etc. must be stored in an area designated by the instructor.
- Dispose of laboratory waste as instructed by the teacher. Use separate, designated containers (not the wastebasket) for the following:
 - Matches, litmus paper, wooden splints, toothpicks, etc....
 - Broken and waste glass
 - Rags, paper towels, or other absorbent materials used in the cleanup of flammable solids or liquids
 - Hazardous/toxic liquids and solids

- Read chemical labels very carefully. Make sure that you have the correct substance in the correct concentration. Check the label twice before removing any of the contents. Follow the instructor's safety instructions for handling hazardous materials.
- Do not return chemicals to their original containers unless you are specifically instructed to do so.
- Always work in a well-ventilated area when using volatile substances or hazardous vapors.
- Handle all chemicals with care. Never taste a chemical. Check odors when instructed to do so by gently wafting some of the vapor toward your nose by hand.
- Never take chemicals, supplies, specimens, or equipment out of the laboratory without the knowledge and consent of the instructor.
- Never work alone in the laboratory without adult supervision.
- Do not enter the laboratory stockroom(s) or storage areas without specific permission from your instructor.
- Transport chemicals, materials and equipment properly as directed by the instructor.
- Human body fluids pose potential dangers and can only be used under strict teacher supervision.
- Always clean the laboratory area before leaving.

Accidents and Injuries

- Report any accident (spill, breakage, etc.) or injury (cut, burn, etc.) to the instructor immediately. Never handle broken glass with bare hands; use a counter brush and dustpan.
- Water spills on the floor need to be cleaned up immediately.
- If a chemical should splash in your eye(s) or on your skin, immediately flush with running water from the eye wash station or safety shower for at least 15 minutes. Notify the instructor immediately.
- Treat burns immediately by putting the burned area under cold water.