

Teacher Contact Information and Classroom Policies

Contact Information

Office: Room 235
Office Phone: 888-6960
Office Hours: 7:45 – 8:00 a.m. and 3:20 – 3:50 p.m. by appointment

Key Points of Student Conduct

1. Make every effort to attend class every single day.
2. Bring your calculator, notebook, paper, pen, and pencil to class every day.
3. Do your work well and turn it in on time.
4. Take pride in your work, and put quality and effort into it.

Notebook

It is important to keep a notebook in this class. Your notebook will contain items such as this information sheet, your safety contract, and your point total sheet. For each unit of study, you should keep your notes, handouts, assignments, and experiments together.

Grades

Grades will be based on the total points you earn divided by the total points possible. Points are awarded for written assignments, experiments, quizzes, and tests. The grading scale is:

100 – 90% **A** 89 – 80% **B** 79 – 70% **C** 69 – 60% **D**

Semester grades are based on the two nine weeks' grades (40% each) and the final exam (20%).

Assignments

Assignments will be graded at regular intervals during the course of a unit. Assignments turned in late will, of course, carry a penalty.

Nightly assignment not finished at beginning of class.....NO CREDIT
Lab not turned in at beginning of class, but turned in the same day.....25% off
Lab turned in one school day late.....50% off
Lab turned in beyond one school day late.....NO CREDIT

All assignments are taken for a grade. If you are absent from class for any reason, you must see your teacher to pick up any assignments and to find out when the work should be turned in. **DO NOT** put off make-up work. Complete it as soon as possible so that you can get on with the rest of the course material.

Tests / Quizzes

Tests and quizzes are given at regular intervals. Don't fall prey to the idea that you are a poor test taker. Tests and quizzes are the true indicators of your understanding of the subject area, and you should take them very seriously. If you are absent only the day of the test or quiz, you will be required to make it up the day you return.

Tips on Assignments

1. Show complete set-up with proper units on all problems that require computation.
2. In general, YES or NO answers are incomplete. You must include an explanation.
3. Assignments are graded for completeness and quality of work.
4. Most often, labs will be graded for correctness. All make-up labs are strictly graded for correctness.
5. I expect every student to attempt and complete each assignment.

I will give you as much help as time allows. Before seeking help, you must struggle to learn the material yourself. When you see me for help, bring the work you are having trouble with – as far as you have completed it – and your chemistry notebook. Do not procrastinate in seeking help. Often, your questions can be cleared up by you checking the assignment set-up and answers on the bulletin board.

Classroom Rules

1. Follow all adult instructions promptly and without argument.
2. Arrive in class on time.
3. No food or drink allowed in the classroom or lab.
4. Follow all school rules.
5. No foul language.
6. Ask for and receive permission in order to leave the room.
7. Work on all assignments on the day assigned.
8. Do not distract other students from getting their work done.
9. No verbal or physical aggression toward adults or peers.
10. No disrespectful or inappropriate comments to anyone.

Failure to follow the above rules will result in disciplinary action including, but not limited to:

loss of points on assignments
detention time
parent contact
removal from class

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Science Safety Contract

McLean County Unit District No. Five

The purpose of this contract is to make the student aware of his/her responsibility for laboratory safety.

1. Exercise caution and good judgment.
2. Follow all instructions given by the teacher.
3. Do only the experiments assigned and in the manner prescribed. Unauthorized experiments are prohibited.
4. Never engage in horseplay or practical jokes.
5. Consider all chemicals dangerous and avoid inhaling chemical fumes.
6. Know the locations of safety equipment and where to get help fast, as well as procedures to follow in the event of an emergency.
7. Do not touch any equipment, chemicals, or other materials until you are instructed to do so.
8. Students are not permitted to enter storage areas unless authorized to do so by their teacher.
9. Wear proper eye protection **at all appropriate times** during laboratory activity. Consult with your teacher about your use of contact lenses. Know the location of eyewash equipment.
10. Confine or securely tie hair that reaches to shoulders when working with open flames or hot plates.
11. Do not eat or drink in the laboratory when chemicals are present. Dangerous chemicals may get into your mouth.
12. No chemicals, supplies, or equipment are ever to be taken from the laboratory.
13. Footwear that completely covers the foot is highly recommended.
14. The teacher is to be notified immediately regarding any accident or unsafe areas, even if it appears trivial.
15. Laboratory areas should be kept clean and neat at all times.
16. Wash your hands after completing any laboratory work.
17. Handle all organisms in the laboratory in a humane manner.
18. Never leave a lit burner unattended and never point the open end of a test tube being heated at yourself or others.
19. Do not place hot glassware directly on the lab desk or in cold water. If you must pick up a hot item, use a pot holder, gloves, or tongs.

- 20. When using knives or other sharp instruments, always carry with points and tips pointed down and away. Always cut away from your body and never try to catch falling, sharp instruments. Grasp sharp instruments only by the handles.
- 21. Experiments involving electricity require special caution on the part of all lab participants:
 - a. Only electrical plugs are to be placed into an electrical outlet.
 - b. Disconnect electrical circuits immediately when you are finished.
 - c. Keep all electrical cords, wires, and appliances away from water.

I, _____, have read and agree to follow all of the safety rules set forth
(student name)

in this contract. I realize that I must obey these rules to ensure my own safety and that of my fellow students and teachers. I will also closely follow the oral and written instructions provided by the teacher. I am aware that any violation of the safety contract on my part may result in being removed from the laboratory, detention, receiving a failing grade, and/or dismissal from the course.

Do you wear contacts? (Please circle.) YES NO

Do you have any medical conditions (allergies, asthma, etc.) that the teacher should know about?

Date: _____

(student signature)

Dear Parent / Guardian:

We feel that you should be informed regarding the school's effort to create and maintain a safe science classroom/laboratory environment. Students are required to have this form signed before engaging in any laboratory work. Please go over the rules with your son/daughter and encourage him/her to follow these rules and procedures in the laboratory. We feel that lab experiences are critical to learning science. We want those experiences to be safe for everyone.

(parent signature)

Note to Parents: Safety Glasses

Students and Parents:

The NCHS Chemistry Department, in keeping with its safety procedures, requires that all students enrolled in chemistry wear approved safety glasses while performing experiments. To make it easy for students to obtain these glasses, we have a supply of new safety glasses that students may buy for \$5.00 each. Acceptable safety glasses may also be found at several stores in this community.

If you would like to purchase safety glasses through the Chemistry Department, have your son or daughter bring \$5.00 in cash or a check (made payable to NCHS).

Thank you for your help in this matter. Together, we can work toward a fruitful and safe year of chemistry. Please call your son or daughter's teacher at 452-4461 if you have any questions.

The NCHS Chemistry Department

Molar Masses of the Elements

ELEMENT NAME	CHEMICAL SYMBOL	ATOMIC NUMBER	MOLAR MASS	ELEMENT NAME	CHEMICAL SYMBOL	ATOMIC NUMBER	MOLAR MASS
Actinium	Ac	89	(227)	Mendelevium	Md	101	(258)
Aluminum	Al	13	26.982	Meitnerium	Mt	109	(266)
Americium	Am	95	(243)	Mercury	Hg	80	200.59
Antimony	Sb	51	121.75	Molybdenum	Mo	42	95.94
Argon	Ar	18	39.948	Neodymium	Nd	60	144.24
Arsenic	As	33	74.922	Neon	Ne	10	20.180
Astatine	At	85	(210)	Neptunium	Np	93	(237)
Barium	Ba	56	137.33	Nickel	Ni	28	58.69
Berkelium	Bk	97	(247)	Niobium	Nb	41	92.906
Beryllium	Be	4	9.012	Nitrogen	N	7	14.007
Bismuth	Bi	83	208.98	Nobelium	No	102	(259)
Bohrium	Bh	107	(262)	Osmium	Os	76	190.2
Boron	B	5	10.811	Oxygen	O	8	15.999
Bromine	Br	35	79.904	Palladium	Pd	46	106.42
Cadmium	Cd	48	112.41	Phosphorus	P	15	30.974
Calcium	Ca	20	40.08	Platinum	Pt	78	195.08
Californium	Cf	98	(251)	Plutonium	Pu	94	(244)
Carbon	C	6	12.011	Polonium	Po	84	(209)
Cerium	Ce	58	140.12	Potassium	K	19	39.098
Cesium	Cs	55	132.90	Praseodymium	Pr	59	140.91
Chlorine	Cl	17	35.453	Promethium	Pm	61	(145)
Chromium	Cr	24	51.996	Protactinium	Pa	91	213.04
Cobalt	Co	27	58.933	Radium	Ra	88	(226)
Copper	Cu	29	63.546	Radon	Rn	86	(222)
Curium	Cm	96	(247)	Rhenium	Re	75	186.21
Dubnium	Db	104	(261)	Rhodium	Rh	45	102.91
Dysprosium	Dy	66	162.50	Rubidium	Rb	37	85.47
Einsteinium	Es	99	(254)	Ruthenium	Ru	44	101.07
Erbium	Er	68	167.26	Rutherfordium	Rf	106	(263)
Europium	Eu	63	151.96	Samarium	Sm	62	150.36
Fermium	Fm	100	(257)	Scandium	Sc	21	44.956
Fluorine	F	9	18.998	Selenium	Se	34	78.96
Francium	Fr	87	(223)	Silicon	Si	14	28.086
Gadolinium	Gd	64	157.25	Silver	Ag	47	107.87
Gallium	Ga	31	69.723	Sodium	Na	11	22.990
Germanium	Ge	32	72.61	Strontium	Sr	38	87.62
Gold	Au	79	196.97	Sulfur	S	16	32.066
Hafnium	Hf	72	178.49	Tantalum	Ta	73	180.95
Hahnium	Hn	108	(265)	Technetium	Tc	43	(98)
Helium	He	2	4.003	Tellurium	Te	52	127.60
Holmium	Ho	67	164.93	Terbium	Tb	65	158.92
Hydrogen	H	1	1.008	Thallium	Tl	81	204.38
Indium	In	49	114.82	Thorium	Th	90	232.04
Iodine	I	53	126.90	Thulium	Tm	69	168.93
Iridium	Ir	77	192.22	Tin	Sn	50	118.71
Iron	Fe	26	55.847	Titanium	Ti	22	47.88
Joliotium	Jl	105	(262)	Tungsten	W	74	183.85
Krypton	Kr	36	83.80	Ununnilium	Uun	110	(272)
Lanthanum	La	57	138.91	Uranium	U	92	238.03
Lawrencium	Lr	103	(260)	Vanadium	V	23	50.942
Lead	Pb	82	207.2	Xenon	Xe	54	131.29
Lithium	Li	3	6.941	Ytterbium	Yb	70	173.04
Lutetium	Lu	71	174.97	Yttrium	Y	39	88.906
Magnesium	Mg	12	24.305	Zinc	Zn	30	65.39
Manganese	Mn	25	54.938	Zirconium	Zr	40	91.224

Molar masses based on 12 C = 12.000 amu

Numbers in parentheses give the mass number of the most stable isotope

Chemistry: Selected Readings, 1st Semester

Unit 1: Introduction to Chemistry

Risky Business	Dec. 93
Post-it Notes	Dec. 93
Poisoned Boy	Feb. 94
Tell-Tale Bullet	Feb. 90
Experimental Method	Dec. 90
Denatured Alcohol	Dec. 90
Dissolving Plastic	Oct. 87
Contest	Apr. 88
Rescue on the Internet	Aug. 96 Reader's Digest
Dark Science	Oct. 85
Lab Safety	Oct. 86

Unit 2: Energy and Matter

Inks	Feb. 93
Buried in Ice	Apr. 94
Buckyballs	Dec. 92
Growing Diamonds	Apr. 90
Archimedes	Oct. 87
\$6,000,000 Man	Feb. 88
The Missing Warning	Oct. 85
What's So Bad About O ₂	Feb. 86
Natural Dyes	Dec. 86 (Lab)

Unit 3: Atomic Structure

Microwave Chemistry	Dec. 93
PET Scan	Feb. 94
Carbon-14 Dating	Feb. 89

Unit 4: The Periodic Table and Periodicity

Origin of the Element Names	Journal of Chemical Education
Element X	Dec. 87

Unit 5: Chemical Bonding and Nomenclature

Perfume	Feb. 92
Nicotine Patches	Oct. 92
Fruits of Ethylene	Apr. 89
Oil Changes	Dec. 89
Making the Grade	Dec. 89
Fast Fat	Feb. 90

Unit 6: The Mathematics of Chemical Formulas

Chemistry: *Selected Readings, 2nd Semester*

Unit 7: *Chemical Reactions and Chemical Equations*

Designer Catalysts	Apr. 94
Hot Meals	Feb. 92
Nylon	Dec. 90
Statue of Liberty	Apr. 85 (Lab)
Hydrogen and Helium	Oct. 85
Catalase (experiment)	Feb. 86
Toothpaste	Feb. 86
Polymers	Apr. 86 (Lab)

Unit 8: *Stoichiometry*

Unit 9: *The Gas Laws*

One Minute Left	Apr. 97, Reader's Digest
Smell of Danger	Oct. 88
Alcohol in Your Tank	Dec. 88
Balloon Pressure	Oct. 85 (Lab)
Nitrous Oxide	Feb. 86
Gas Laws and Scuba Diving	Feb. 83

Unit 10: *Solutions*

Biodegradable Bags	Oct. 91
Hot & Cold Packs	Feb. 87

Unit 11: *Acids, Bases, and Salts*

Aspirin	Feb. 93
Soap	Feb. 85
How Soap Works	Feb. 85
Detergents	Apr. 85
Automatic Sunglasses	Dec. 89

Unit 12: *Special Topics*

Phases and Heat

Instant Hot Pack	Feb. 87 (Lab)
Cooking With Steam	Feb. 87

Other

Zombies	Oct. 87
Chocolate	Apr. 87
Artificial Sweeteners	Feb. 88
Abnormal Insulin	Feb. 88
Color of Gems	Dec. 88
Lipstick/Mood Lipstick	Dec. 85
Smoking	Feb. 86