# *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.

##### McLean County Unit District No. Five **Science Safety Contract** page 2

##### 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 CHEMICAL ATOMIC MOLAR ELEMENT CHEMICAL ATOMIC MOLAR

NAME SYMBOL NUMBER MASS NAME SYMBOL NUMBER 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 O2 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