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Physics

Course Outline, Introduction, and Suggestions for Success

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TEXT: *Physics*. Cover text; bring daily.

CONTENT: Following are the topics we will be investigating/mastering/applying to life. Focus is on the role of each in living systems.

1. Skills - measurement, lab safety/techniques, problem solving, computer skills
2. Motion in 2 dimensions; vectors
3. Projectiles
4. Forces; Newton's Laws
5. Rotational motion; torque
6. Work and energy
7. Light
8. Sound
9. Electricity and magnetism
10. Nuclear physics

EXPECTATIONS:

1. Be here, be kind, be safe.
2. Be prepared to work.
3. Work hard.

PHYSICS MATERIALS NEEDED – PLEASE BRING DAILY:

- three-ring binder (2 inch, used for Physics only)
- 4 tabbed dividers and notebook paper (you may use a spiral for notes)
- blue or black pens, pencils, hi-liters, colored pens/pencils
- a zippered pencil pouch that fits in your binder to keep everything in
- Chromebook

If obtaining these supplies is a challenge, please see me immediately. I can help.

COURSE LEARNING AGREEMENTS

ATTENDANCE: A science class cannot be made up by just reading, Xeroxing someone's notes, or filling out a worksheet. Do not miss class unless it is absolutely necessary. If you were absent, find out what you missed on <http://www.chemistar.com>, and pick up materials in the What Did I Miss box. You may also e-mail me with questions. District policy requires work missed due to absence to be made up within the number of days missed. If you miss 2 days, you have 2 days to submit your work.

PHYSICS NOTEBOOK: Bring the tools to each class to support your success in Physics. Assemble a looseleaf binder according to the instructions on the Care and Maintenance of the Science Notebook handout. Maintain the binder in usable condition, and bring this notebook to every class. The notebook will be assessed during the year.

NOTES: Notes are messages you make to yourself to help you remember or understand information, not just words copied onto your paper. We will explore many ways to record and interact with your learning. Date and number all pages in the Notes section of your binder. This is very helpful in knowing what to study for a given test, or when lending notes to a friend.

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STUDYING: Spend 15-30 minutes after each class, using strategies suggested in class to reinforce your learning. Write questions in the margins of your notes so you remember to ask the next day. Revisit and interact with past materials weekly.

LABORATORY: You learn much more by working through a lab activity with classmates than from reading or being lectured to, and besides, labs are more fun. Along with fun comes the responsibility of being prepared and businesslike. The lab is potentially a very dangerous place, and any attempt on your part (no matter how small) to deviate from the course safety rules will result in the suspension or **termination** of your lab privileges, with resulting impact on your grade. Know the rules of conduct in your lab safety handouts and **follow them**. **IF IN DOUBT, ASK!**

A test of laboratory safety, procedures, and equipment must be taken and passed before you will be permitted to begin any lab work. You may take the test as many times as necessary to pass, but remember that the longer it takes you to pass, the more lab work you will have to make up. Retakes are before or after school, by appointment.

Lab work must be made up, because this class grants laboratory credit. It's difficult to gain the deep understanding needed to show mastery of a concept without working with the actual process.

ASSESSMENTS and GRADES:

- Laboratory work
- Quizzes and Tests
- Learning Opportunities such as homework, projects, and in-class activities
- Semester exams

Inquiries, individual daily work, entry tasks, assignments, homework, projects, and other practice assessments that support your success in mastering concepts may contribute to your grade and may be scored in any category depending on their purpose. *Quizzes may be retaken or re-written **once**, within a reasonable length of time and after a student has shown a reasonable effort to master the concepts, for full or partial credit at the instructor's discretion. Because multiple opportunities to show proficiency are already built into the course, there is no need for "extra credit" in this class.*

FINAL GRADE SCALE: (from student handbook)

99 – 100 = A+	71 – 72 = D+
95 – 95 = A	67 – 70 = D
93 – 94 = A-	65 – 66 = D-
	00 – 64 = F
91 – 92 = B+	
85 – 90 = B	
83 – 84 = B-	
81 – 82 = C+	
75 – 80 = C	
73 – 74 = C-	

ACADEMIC INTEGRITY: “Cheating” is claiming work as your own when it is indeed NOT your own work. Collaborative assignments will be marked as such with the expectation that you are demonstrating an active participation in the learning and documenting all collaborators. Any other work submitted must be your work and yours alone. Cheating includes copying anything, including an idea, from anyone even though you “change a few words.” *This includes the use of photographs of other students’ work to complete your own falls into the district policy as giving or receiving answers, plagiarism, copying homework.* Your student handbook states district policies:

STUDENT HANDBOOK CATEGORY “H” Falsification/Cheating/Forging of Parent Signature

Students shall not cheat. Cheating shall include, but not be limited to giving and or receiving answers, plagiarism, copying homework, using cheat sheets, and obtaining answers from another student on a test or quiz. Falsifying signatures or data, or refusing to give proper identification or giving false information to a staff member. This prohibition includes, but is not limited to, forgery of hall/bus passes and excuses, as well as use of false I.D.s. 1st violation: Student given a zero on the test or assignment, and parents notified by teacher: Notification will be placed on file in the office. 2nd violation: Consequence for 1st violation plus Saturday Morning Discipline Program. 3rd violation: Reclassified as Category "A" Repeated Violations of School Rules

ELECTRONICS and Norms for Responsible Use: Your Chromebook will enhance your learning when used properly. You will learn best uses for the Chromebook in Chemistry. Your Student Handbook states “CELL PHONE USAGE POLICY: Cell phones are to be powered off and put away during the school day except during lunch. Students are not to use their cell phones during class or in the hallway unless given permission by a teacher for school related purpose. Cell phones are not to be a distraction while walking in the hallway. Misuse of cell phones during school hours will result in disciplinary action for insubordination.

In accordance with this policy and access to your Chromebook, use of cell phones is rarely necessary in this course, with the possible exception of photographing your lab work (the actual lab equipment, not the recorded results.) Give the office phone number to your family members so they may reach you if there is a family emergency. The number is (419) 568-9100.