

1. **Physics**
2. **Instructor:**  Mrs. Cheyenne Diadiun, Room 206
3. Email: cheyenne.diadiun@fbcwixom.org

## Course Description

Physics is a course designed to expose you to how the world works. In this class, we will explore several topics including measurement, one and two dimensional motion, circular motion, Newton’s Laws, work and energy, momentum, electromagnetics, light, and thermodynamics. While exploring these topics, we will answer many of your own inquisitive questions, such as does a feather and a dumb bell fall at the same speed, what is a sonic boom, and how does an airplane get up in the air. In this course, we will study all of these things, for Physics is the study of how natural things work. Throughout the year, we will ask questions and discover answers to the mysteries and wonders that surround all of the substances on Earth. These concepts will be learned and understood through many hands-on labs that will allow you to use and relate the subject matter to the real world. In addition, this class will be based on mastery of skills and will focus on giving you more responsibility over your own learning.

Materials

3-ring binder (1-1 ½“)

Loose-leaf notebook paper

Pencil

Black/Blue Pen (for laboratory write ups)

Calculator (scientific is necessary)

Flash Drive--optional (allows transfer of information from school to home)

**I always appreciate ☺**

**Tissues**

**Hand Sanitizer**

Hand Soap

Hand Lotion

Graphing Paper

Computer Paper

Pencils

Colored Pencils

Washable Markers

## Attendance

Students are required to attend all classes; however, there are sometimes extenuating circumstances that result in a student missing class. Students are expected to follow lessons posted on my Weebly/School Dynamics and are responsible for completing their tasks in an expeditious manner. When the bell sounds, students are considered tardy if they are not in the classroom AND working on classwork. Should students be tardy, they will be sent to the office before being admitted into the classroom.

Notebooks

Clear and concise notes are necessary for learning. Students will be given presentations to view and on which to take notes. If a discussion happens in class, they will also be responsible for taking notes. Therefore, students are required to develop, maintain, and organize their notes throughout the entire semester, which should include a section for each unit. Notebooks will be checked unannounced periodically.

## Leaving the Classroom

From time to time a student may have to leave the classroom. Students are allowed **4** passes to attend to bathroom needs. Students may turn in their pass, sign out on the clipboard, and will have 4 minutes to be gone. After this, the student will be deemed absent and will serve the consequences as stated in the Student Handbook. Students needing to leave more than four times a semester are required to provide a note from a doctor. As the teacher, I reserve the right to not grant a pass based on a student’s behavior, wanting to leave at an inappropriate time, or other reasons. If students lose their passes, they cannot leave the room.

## Student conduct

The proper and safe functioning of a classroom is contingent upon proper respect for each other and the physical classroom environment. Failure to abide by the previous statement will result in corrective action in accordance with the student handbook. In addition to this code, rules specific to this classroom include the following:

1. Be respectful! Respect yourself, your teacher, your classmates, the classroom, materials, etc.
2. Exhibit appropriate behavior and language.
3. No food or water will be allowed in the lab!! – Water is acceptable ONLY IN THE CLASSROOM.
4. Quickly and appropriately transition from task to task
5. Be prepared. Bring your notebook, laptop, pen/pencil, and paper every day to class. Your pencil needs to be sharpened **before** class begins.
6. Carefully follow lab instructions/safety

Grading

Grades will be determined based on assessments, labs, homework, and classwork. In my class, an assessment may include labs, reports, projects, or posters, as well as, traditional pen and paper tests. Evidence of cheating and plagiarism will be met with appropriate disciplinary action (See student handbook).

Make-up Policy

Should your student miss any assignment or assessment, students are responsible to make up these in accordance to the policy stated in the Student Handbook. Make up assessments are to be completed after school within a week of the absence.

Weebly

Students will have access to Weebly throughout the entire year. On this site, students will have access to numerous resources to help them be successful in science. This site will be used to facilitate the class assignments, labs, PowerPoints, etc. Please use your student login and password to access it. The URL is [www.wcscheyennediadiun.weebly.com](http://www.wcscheyennediadiun.weebly.com)

Final Examination

Students will be required to take a semester exam that will be worth 10% of their final semester grade. Keep in mind that the second semester final is **cumulative** for the whole year.

*All the above information is expected to remain the same throughout the year, but situations do arise where changes are necessary. Therefore, this syllabus is subject to adjustment when necessary. ALL SCHOOL POLICIES AND EXPECTATION STILL APPLY!!!*

I look forward to a wonderful year in science. Science is not a difficult class; it is just a new way of thinking. If you apply yourself, I have no doubt that you will succeed.

You and your parent/guardian must read the science syllabus including the Lab Safety Rules. After reading these documents, please sign the Acknowledgment of Receipt.

-Mrs. Cheyenne Diadiun

Lab Safety Contract

***TO BE KEPT IN YOUR BINDER AT ALL TIMES!***

GENERAL SAFETY

1. Follow all written and verbal instructions carefully.
2. Consider the safety of your fellow students. **No horseplay will be permitted.** The laboratory is a place for serious work. Absolutely no practical jokes or misconduct will be tolerated. Pay strict attention to your work. Restrain yourself from social conversation.
3. Any accident or injury must be reported to the instructor immediately.
4. Never touch materials or apparatus until given permission.
5. Safety glasses must be worn **at all times** while working in the lab.
6. Long sleeves should be rolled up and long hair must be tied back during labs that use flame.
7. Keep sinks and work areas clean. **Remember sinks are NOT trashcans.** Please do not throw trash in the sinks.
8. No eating or drinking or gum chewing in the lab.
9. No unauthorized experiments allowed in the lab.
10. When applicable, have the pre-lab completed before coming to class.
11. You **MAY NOT** open the glass lab material cabinets for any reason. This will result in an **automatic demerit**.

FIRE SAFETY

1. Learn **at once** the location and operation of
* Fire extinguisher
* Eye and face wash fountain
* First aid kit
1. In lab work involving the heating of test tube, never look in the test tube while heating it, or point the mouth of the test tube towards any other student.
2. Never use an open flame near a volatile liquid, such as alcohol.

CHEMICAL SAFETY

1. No chemicals may be used until instructor explains the use and cautions to be taken.
2. Never use unlabeled chemicals.
3. Always use caution while transferring reagents from their containers. In the event that spilling occurs, the teacher should be notified immediately.
4. Immediately wash with large amounts of water any part of skin, or clothing that comes in contact with strong reagents.
5. Chemicals in the eye must be washed immediately with running water.
6. Do not taste, eat, purposely inhale, or drink any lab chemicals.

CORROSIVE SUBSTANCES

1. Reagents are not to be taken from the laboratory stock stations. Take container to stock stations for materials.
2. Never pour unused reagents back into bottles, exchange stoppers of the bottles, or lay stopper on the table.
3. Never add water to concentrated acid. (If you must dilute acid- you add acid to water)
4. Large storage bottles of chemical such as acids or alkalis are only to be handled by the teacher.

GLASSWARE SAFETY

1. **Notify the teacher** about all broken glassware. Prevent other students from walking in that area, and above all do not attempt to clean up the broken glass until given instructions and materials for clean up. Never handle broken glass with bare hands. Use counter brush and dustpan.

**Note:** You will have to pay the replacement cost for the broken glassware and other lab supplies**.**

1. Solid waste and broken glass will be placed in specific containers, not in the waste paper basket.

*Most importantly, working in the lab requires a cautious attitude with personal safety and safety of others in mind. If the above regulations are not followed, use of laboratory will be denied.*

**Science Syllabus Acknowledgment of Receipt**:

* I acknowledge the receipt of and have read the science room syllabus including classroom rules and procedures.
* I acknowledge the receipt of and have read the Laboratory Safety Rules.
* I will actively participate in my child’s educational pursuit and encourage her/him to be successful.
* **I, the parent (or guardian), have reviewed the Lab Safety Contract with my daughter/son and understand the policies and consequences for violating them. If at any time a safety rule is violated, my son/daughter will be removed from the lab and will not receive any credit for the lab.**
* A copy of this syllabus is available on the science website so that I can help in the event that my daughter/son needs my assistance.
* If I have questions concerning the performance of my daughter/son, I will consult School Dynamics for posted graded assignments.
* If I have any questions or concerns, I agree to contact Mrs. Diadiun at cheyenne.diadiun@fbcwixom.org

Lab Safety Questions:

1. Do you wear contacts?

\_\_\_\_Yes \_\_\_\_No

1. Are you color blind?

\_\_\_\_Yes \_\_\_\_No

1. Do you have any allergies? If yes, please list below.

\_\_\_\_Yes \_\_\_\_No

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Student Name (**print**)

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Student signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

Parent (Guardian) Name (**print**)

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Parent (Guardian) Signature

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Home phone #

Best time to call

Work phone #

Best time to call

Email address(es) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_