

Physics

2nd Period 2023-24

INSTRUCTOR INFORMATION

Instructor Name: Mr. Bryon Meyer **Class Location:** 107

E-Mail: bmeyer@hayfield.k12.mn.us **Prep:** 8th Period

Phone: (507) 671-1537

Duration: Full Year

Course Description

The purpose of this course is to prepare students for college physics. This course provides an understanding of the basic principles involved with physical concepts and the ability to apply these principles in the solution of problems. The course content includes topics in mechanics, kinetic theory, electricity, waves and optics, and modern physics.

Course Outline

A. Measurement

B. Newtonian Mechanics

1. Kinematics (including vectors, vector algebra, components of vectors, coordinate systems, displacement, velocity, and acceleration)
2. Newton's laws of motion
3. Work, energy, power
4. Systems of particles, linear momentum

C. Electricity

1. Electrostatics
2. Conductors, capacitors, resistors
3. Electric circuits

D. Waves and Optics

1. Wave motion (including sound)
2. Physical optics
3. Geometric optics

E. Relativity

1. Einstein's Theory of Relativity

Classroom Expectations

1. Be prepared and seating in your desk when the bell rings.
2. Listen when others are speaking.
3. No swearing or other rude or disrespectful comments.
4. Keep your hands and feet to yourself.
5. Make sure your area and/or equipment are clean and organized before you leave the classroom.
6. Cell phones will be stored in the cell phone pocket holder during the class period unless specified by the teacher for instructional purposes only.
7. **Always** follow safety procedures.

SAFETY

A science laboratory is a potentially dangerous environment. Horseplay, inappropriate or unauthorized use of equipment or materials, not following directions, or any other behavior that jeopardizes the safety of yourself or others may be grounds for immediate dismissal from class. A laboratory safety contract will be presented within the first week of class and all students and parents/guardians will be expected to sign and abide by these rules.

Grading:

A = 94-100%	C = 74-76%
A- = 90-93%	C- = 70-73%
B+ = 87-89%	D+ = 67-69%
B = 84-86%	D = 64-66%
B- = 80-83%	D- = 60-63%
C+ = 77-79%	F = Below 60%

DISTRICT GRADING POLICY- Since this is a senior high class, grading is based on the 75/25 scale. If you have questions on the 75/25 scale please consult your student handbook or Mr. Meyer

1. Summative Assessment (tests, projects, and some labs) will be 75% of your grade.
 - a. You have the opportunity to re-take a summative assessment within 5 school days of the test/project date. It is your responsibility to schedule the re-take with me and you must have all of your formative assessments turned in. The re-take will be the final score for the test/project.
 - b. Students in violation of the district's academic dishonesty policy will have 5 school days to complete an alternative assessment for 50% credit. I will determine when and where the make-up will be done. Choosing to not do the alternative assessment will result in a zero.
2. Formative Assessments or Assignments influence 25% of your grade.
 - a. **You** are responsible for turning work in on time!
 - b. Make sure your first and last name is on all assignments.
 - c. Assignments turned in by the

Due Date = full credit

By Chapter Summative Assessment = 90% credit

After Summative Assessment (no more than 5 days) = 50% credit

Please do not hesitate to ask questions, I am always willing to help.

HOMEWORK POLICY

I understand students will miss school for various reasons; however, STUDENTS are responsible for making up any course work missed. For each day missed the student has a certain amount of time to complete missed work.

<u>Day Missed</u>	<u>Days to Complete Work</u>
1	2
2	3
3	4
4	5
5	6
5+	Ask Mr. Meyer

If a student is absent the day of a quiz or test, the student is expected to take the test the following day, during their own time (study hall). We can arrange something on an individual basis as well. **IT IS NOT MY RESPONSIBILITY TO ARRANGE A TIME FOR YOU TO TAKE YOUR TEST. YOU MUST COME TALK TO ME.**

If a student misses a single day leading up to a quiz or exam but not the day before the exam/quiz, they will be expected to take the quiz/exam as scheduled.

If a student is absent the day before an exam or quiz, the student is expected to take the exam or quiz within 2 days upon return.

The following all applies to excused absences. If a student has an unexcused absence on a day an assignment is due, the assignment will be considered late, and will not receive extra time for unexcused absences the day before an exam or quiz.

Retakes will cover the same content, but in a different format.

Students will have five calendar days to take the retake and must have all assessments completed and turned in. I may elect to give only part of the summative assessment as a retake.

The score a student receives on the retake is the score on the summative assessment entered in JMC.

I reserve the right to change these rules on a case-to-case basis!

Assignments

Grades will be based on your performance on tests and quizzes, laboratory activities, homework, and projects.

Academic Responsibility

Academic dishonesty will not be tolerated and apply to the following:

1. Cheating – intentionally using or attempting to use unauthorized materials in any academic exercise.
2. Helping others cheat.
3. Plagiarism – intentionally copying or using the words or ideas of someone else as your own.

Any act of academic dishonesty will result in a zero for the assignment and any other action the teacher/administration sees necessary. A call home to parents will follow.

*Mr. Meyer reserves the right to change the items listed as needed throughout the school year.