

Marian Central Catholic High School COURSE SYLLABUS 2020/2021

Physical Science Science Department

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Google Classroom Code: Period 2 - zn4tpy3 Period 7 - 5ey5mmn

I. Welcome!

Welcome to Physical Science! This is an introduction to high school science. The goal is to provide students with an enjoyable experience in a variety of science topics. I'm excited to teach this course and hope you're excited to learn!

II. Marian Central Course Catalog Description

Physical Science is an introductory course designed to acquaint the student with the basic concepts of chemistry, earth science, and physics. Much emphasis will be placed on developing laboratory skills and a working knowledge of the Scientific Method. Many of the topics will require an understanding of basic algebra. Graphing, analysis of graphs and data, and analysis of experimental design will help build the skills necessary for success on the ACT and other standardized tests.

III. Course Overview

This is a foundational science course that introduces students to a high school level science course. Students are developing skills that will be used throughout their high school career.

IV. Course Objectives

- Understand the nature of scientific thought and inquiry and the historical development of major scientific ideas.
- Understand basic scientific terminology.
- Understand and implement the principles and procedures of research and experimental design.
- Understand and implement the procedures for gathering, organizing, interpreting, evaluating, and communicating scientific information.
- Translate information into a table, graph, or diagram.
- Understand and describe the structure and nature of matter.
- Understand and describe the nature of physical changes in matter.
- Understand and describe the nature of chemical changes in matter.
- Understand and apply knowledge of geologic history and processes related to the changing earth.
- Understand and problem solve using knowledge of the earth's atmosphere, weather, and climate.
- Understand and describe the components of the solar system and universe and their interactions.
- Prepare an organized, developed analysis on a topic related to one or more of the following: history, philosophy, and methodology of science; chemistry; physics; biology; and earth and space science.

V. Course Prerequisites

None. Requires concurrent enrollment in Algebra 1



VII.Supplementary (Optional) Texts and Materials

Writing utensil (pen and/or pencil), personal kleenex, stapler, crayons/colored pencils/markers, scissors, goggles and non-latex gloves (if able to conduct labs later in the year)

VIII.Basis for Final Grade

Categories/Assessments	Percent weighting of Final Grade
Formatives	at least 40% of the total grade.
Summatives	at least 60% of the total grade.

Examples of Formative assignments include: quizzes, lab demonstrations, POGILS, guided readings, classwork, homework. Examples of Summative assignments include: unit tests, chapter quizzes, formal lab reports, projects, presentations

MARIAN CENTRAL STANDARD GRADING SCALE

<u>Grade</u>	Number Equivalent
Α	95-100
A-	93-94
B+	91-92
В	87-90
B-	85-86
C+	83-84
С	79-82
C-	77-78
D+	75-76
D	72-74
D-	70-71
F	Below 70

The semester grade for a course is calculated as follows: the semester letter grade counts as four-fifths and the semester exam counts as one-fifth.



be updated no less than weekly in Rediker. All work generated by the students will be returned with grades and/

Course Policies: Grades

General

All reading, homework, laboratory exercises, quizzes, and tests will be geared to helping you understand the material and understand the desired outcomes. Homework and labs involving calculations will not receive full credit for answers only. Setups of calculations must be shown. The same applies to tests when calculations are necessary and it says in the directions to show your work for full credit. I value hard work and perseverance in students, and appreciate those who do their best, not just the minimum. While homework will not be collected for correctness grade every day, you will have homework credit often and completion credit will be given.

Late Work Policy

Late work will be accepted for 80% credit consideration until the assignment is returned. Agency points (up to 20%) will be taken off. Once the assignment has been returned, a maximum of 50% credit consideration. NO LATE WORK WILL BE ACCEPTED AFTER THE ASSESSMENT. A zero will be put into the gradebook until an assignment is turned in. All late work must be turned in by the Friday prior to any quarter or semester assessment for grade consideration. Any late work turned in after that point will receive a 0 in the grade book for the grade period and it will not be changed.

If a test or quiz is missed it is the student's responsibility to schedule a make-up time. If this is not done, the test will be a zero online until the student takes the test. This also applies to laboratory experiments.

Extra Credit Policy:

There is opportunity for extra credit each semester. To be eligible, the student must have no missing or late work for that semester. If a student has missing or late work, they may not participate in the extra credit offered.

Lab Group Work Policy:

Lab groups are chosen by the instructor. Each student is responsible for turning in their own analysis and data for the experiment. Labs are an integral part of any science course. Students are expected to participate fully in activities. Lab time is not a time to do other homework or catch up on missing work. If a student does not participate in the lab, a reduction to the final grade of 10% will be assessed.

XI. Course Policies: Student Expectations

Absence Policy:

If a student is absent they should email the teacher to see what they are missing and/or see the teacher as soon as they

resume classes. The student should also make sure to check the Google Classroom when absent. If there are worksheets the

student is missing, and it's possible, the worksheets can be placed in the office for a family member to pick up. The student

can have as many days as they were absent from class to make up the assignment. If students miss a lab, they may need to

come in before or after school to make up what they missed. Teacher discretion may allow for sharing of data if setup/materials are not available.

Attendance Policy:

student is in attendance on the day a test is given, they must take the test before leaving school. Tests and quizzes are to be made up in the library during the class period in which they were missed, or after school with the teacher. If a student fails to show up for a scheduled make-up test (and are present on campus) they will receive a 0% on the test. If a student misses school only on the day of a test, he or she must be prepared to take the test on the day of return. An alternate form of the test may be given.

Class Expectations

Students will be expected to come to class prepared with required materials, this includes textbook, (when indicated) a lab\ notebook or binder, writing utensil, paper and enthusiasm. Students are expected to be courteous and respectful to the teacher and fellow students. Your integrity is more important than your grade. Any bullying or disrespectful behaviour will result in a detention.

Your job is to give your best effort to each and every task, creating great life skills that will set you up for success and the best opportunities in life.

I expect each and every student to follow all safety procedures. There are no exceptions. If proper procedures are not followed then students will lose lab participation points. If the behavior continues students will not be allowed to finish the lab and will receive a zero on the lab and the Director of Discipline will be notified. Students will be expected to help keep their lab bench and sink clean. Students are expected to participate in all aspects of lab work equally, including cleanup, and if they do not they will lose lab points.

Marian Central Academic Integrity Policy:

One of the important aspects of classroom procedures is the integrity of each student's own work. Dishonesty, cheating and plagiarism may include, but are not limited to – misrepresenting the truth, forging or falsifying school documents, accessing restricted files/information, academic dishonesty including inappropriate use of the internet or information found on the internet, or any other action intended to obtain credit for work not one's own. If a student is found cheating, assisting another on a test or assignment, or otherwise engaging in dishonest activities including plagiarism, he/she will receive an "F" (0% or 0 points) for that work and a Saturday detention will be assigned. When such a situation arises, the teacher will notify the student's parents and will inform them of the actions taken.

XII. Education Technology and Use of School Issued Laptop Devices

Students are expected to use all technology appropriately in class. Students caught off task, using technology in a manner not acceptable for the classroom or any other way except the way that they were instructed to will face disciplinary consequences

privileges in the class. The only device that should be used is the school issued laptop device unless express permission is given at the class. The only device that should be used is the school issued laptop device unless express permission is given at the individual student by the teacher. A student caught using their personal device/cellphone will be asked once to the infraction of the infraction. It will be returned at the end of classifiers may also result in a detention. Administration will also be notified of the infraction. Students must make sure their device is charged every day.

Google Classroom will be used as the digital classroom for the class. Students are expected to sign up for and use Google Classroom.

Students will be using a variety of websites and apps to enhance student learning including but not limited to: Quizlet,

Kahoot, Seesaw, Edpuzzle, Google Slides, PHET Interactive, HHMI, C K-12, flipgrid and many others

XIII.Important Dates to Remember

Semester 1 Midterm Date: October 16, 2020

Semester 1 Exams December 16, 2020 Periods 1 & 2

December 17, 2020 Periods 3, 4/5/6, & 7

December 18, 2020 Periods 8 & 9

Semester 2 Midterm Date: March 12, 2021

Semester 2 Exams May 25, 2021 Periods 1 & 2

May 26, 2021 Periods 3, 4/5/6, & 7

May 27, 2021 Periods 8 & 9

XIV.Contact Information

I have an open door policy as far as office hours are concerned. I am available before school starting at 7:30 AM and after school until 3pm; and any student is welcome to come in for extra help. Please try to contact me if coming in for help, so I can make sure I am in my room and available.

Students are welcome to contact me via email or through Google Classroom. I will answer student emails after school if I am available, but students should not expect an answer after 8:00 pm.

ould email me using the school email address. I will answer emails sent on Monday-Friday within 24 hours. If an