Physical Science

Instructor: **Mr. Anthony Verde**

Room: B212

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Required Materials:

- Pencils / pens
- Note-taking materials of your choice (three-ring binder, composition notebook, etc.)
- Loose-leaf paper for completing and turning in assignments.

Welcome to Physical Science Class!

This course will explore both physics and chemistry using an inquiry system of teaching and learning. Science projects, laboratory investigations and other independent student research will also provide students with a better understanding of the processes of physical science.

I am excited to get this semester started and explore the world of science with all of you! I wish you much success and with dedication and enthusiasm, you will be able to achieve great things these two quarters. (I know you can do it !!).

NC Standards/Objectives: Students, as well as, parents and guardians are encouraged to visit the state website for a detailed list of objectives and performance indicators of mastery: https://www.dpi.nc.gov/documents/curriculum/science/scos/support-tools/new-standards/science/physical-science-essential-standards

All lessons, work and resources will be posted on CANVAS.
Should you be absent sign onto Canvas for the lesson and assignment.

Course Overview

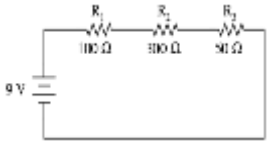
1. Fundamentals of Science
2. Properties of Matter - Nature, Phases and Heat
3. Properties of Matter and Behavior of Gases
4. Atoms & Periodic Table
5. Changes of Matter (Chemical Bonding)
6. Conservation of Mass (Chemical Reactions)
7. Energy, Reactions and Decay
8. Solutions - Acids, & Bases

MIDTERM*

**Note: The midterm will count as two (2) test grades.*

Textbook: Foundations of Physical Science
(Posted on Canvas should you want a hard copy – let me know)

9. Motion & Forces
10. Laws of Motion
11. Thermodynamics (Energy, Work and Power)
12. Simple Machines
13. Electric Circuits and Systems
14. Electricity & Magnetism
15. Harmonic Motion, waves and sound
16. Optics (Light, color, vision)
17. Project
18. Review



FINAL EXAM*

**Note: Final exam counts for 25% of the entire course grade*

Electronic Devices

- **Phones ARE TO be dropped off to the box as you enter the class.**
- **Our focus in this classroom is on learning, we can't let anything get in the way.**
- **To avoid being disrespectful to the class and counter-productive to the educational experience – Your phone is to be put in the drop box.**

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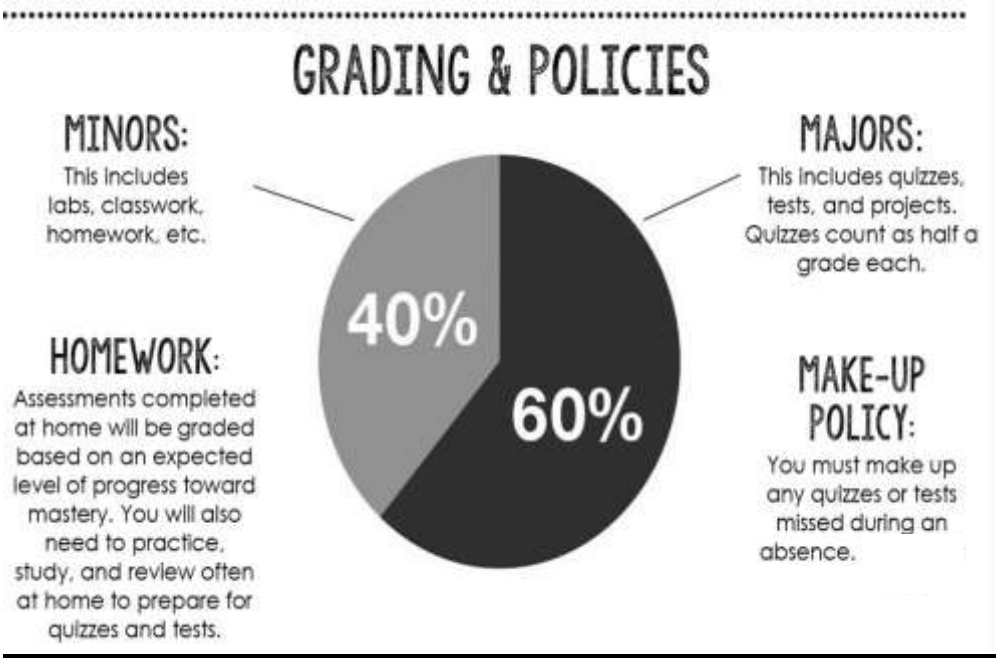
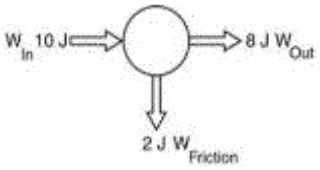


Final Grade Calculations:

- ***First 9 weeks: 37.5%***
- ***Second 9 weeks: 37.5%***
- ***Final Exam: 25%***

**** NC final exam (NCFE)**



Scholarly Integrity: *It is expected that the work you do will be your own. This applies to ALL work in this course, whether it is on a test/quiz, homework, group work turned in individually, or lab reports.*

Extra Help Sessions
Having difficulty with this course?
NO PROBLEM!

Extra Help Sessions:
Tiger Time
and
Tuesday thru Thursday
2:15 – 3:15 PM

MPHS Code of Student Conduct - Students are responsible for complying with and are expected to be familiar with the MPHS Code of Student Conduct and School Board policies governing student behavior and conduct. All Code of Student Conduct policies are contained in the MPHS Student Handbook. Any violation in the code of student conduct will result in disciplinary action.

Make-up Work/Late Work Policy:

If a student misses' class for an excused absence, work must be made up within 2 days. It is the student's responsibility to get any missed notes (Canvas) and assignments/handouts (Canvas). Make appointment to schedule your make-up lab, test and quiz.

Late work:

All work should be completed and turned in on time. ***If any work is turned in late, then you will only get partial credit.*** Late work will only be accepted through the test for that unit.

STUDENT EXPECTATIONS:

- Don't be afraid to ask questions.
- Be on time and prepared for class.
- Be respectful of teachers and classmates!!!
- Always listen and read ALL directions
- Be yourself and HAVE FUN!

**** Currently due to Covid-19 we on a Plan C**

Re-take: Score below 70:

- Test corrections need to be done
- Then Re-take - The maximum grade you can receive on a retest is an 85.

Test Corrections – Points will be added to test score. Points added = 25% of question value.

Respect for Diversity:

It is my intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength and benefit. It is my intent to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally or for other students or student groups. Thank you! Mr. Verde

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Course Overview

Below you will find a pacing guide for this course. All topics that we will cover are listed along with readings, time per unit and possible labs. Additional unit information can be found: NC Standards/Objectives: https://www.dpi.nc.gov/documents/curriculum/science/scos/support-tools/new-standards/science/physical-science-essential-standards

Unit/Standards		Topic	Foundations of Physical Science Textbook Chapter
1 – The scientific process, measurement and skills	5 Days	Fundamentals of Science	Chapters 1 - 3
2 - PSc. 2.1.1 - 2.1.2	5 Days	Properties of Matter - Nature, Phases and Heat	Chapters 10 - 11
3 - PSc. 2.1.3	5 days	Properties of Matter and Behavior of Gases	Chapters 12 - 13
4 - PSc. 2.1.4 & Psc. 2.2.1	5 days	Atoms and Periodic Table	Chapters 14 - 15
5 - PSc. 2.2.2 - 2.2.3	5 days	Changes of Matter (Chemical Bonding)	Chapter 16
6 - PSc. 2.2.4 - 2.2.5	5 Days	Conservation of Mass (Chemical Reactions)	Chapter 17
7 - PSc. 2.3.1 - 2.3.2	5 Days	Energy and Reactions - Radiation/ Radioactivity	Chapter 18
8 - PSc.2.2.6	5 Days	Solutions (Acids, & Bases)	Chapter 19
9 - PSc. 1.1.1 - 1.2.2	5 Days	Motion & Forces - (Speed/Acceleration, Momentum)	Chapters 4 - 5
10 - PSc. 1.2.3	5 Days	Laws of Motion	Chapter 6
11 - PSc. 3.1.1 - 3.1.3	5 Days	Thermodynamics - (Energy, Work and Power)	Chapters 7-8
12 - **PSc.3.1.4**	5 Days	Simple Machines	Chapter 9
13 - PSc. 3.3.1 - 3.3.3	5 Days	Electric Circuits and Systems	Chapter 21
14 - **PSc. 3.3.4 - 3.3.5**	5 Days	Electricity & Magnetism	Chapter 22
15 - PSc. 3.2.1 - 3.2.3	5 Days	Harmonic Motion, waves and sound	Chapters 23-24
16 - PSc.3.2.4	5 Days	Optics (Light, color, vision)	Chapter 25
17 – Project	5 Days	Project	
18 – Review	5 Days	End of Course Review	
	Total Days: 90		

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Violations will result in:

-1st Offense: Verbal Warning

-2nd Offense: Referral to Choices and the office

Safety in the Science Laboratory

In order to decrease the chances of any accidents occurring in the science laboratory, all students are required to follow the safety procedures listed below.

1. All accidents should be reported to the teacher immediately, no matter how minor.
2. Students should prepare for lab by reading all instructions thoroughly before they begin a lab. Follow all written and verbal directions carefully. Improper procedures can result in inaccurate results and a loss of points.
3. DO NOT ASSUME!
4. Only those lab activities for which the teacher has given permission should be performed and only materials and equipment authorized by the teacher should be used.
5. Only lab manuals and notebooks are permitted in the working area.
6. Students are not allowed in lab storage rooms.
7. No food or beverage is permitted in any science laboratory.
8. Never taste or touch chemicals unless specifically instructed to do so.
9. Eye protection (goggles) is required whenever glassware, flames, or chemicals are present. Do not bring any substance in contact with a flame. Failure to wear eye protection will result in a loss of points for the entire lab group. Prescription glasses alone are not adequate.
10. Never handle broken glass with your bare hands.
11. Do not discard solids in the sink. (i.e. food, gum, paper)
12. Students should always clean and wipe dry all lab areas. It is the student's responsibility to thoroughly wash hands with soap and water at the conclusion of each lab.
13. Horseplay, running, pushing, shoving and practical jokes will not be tolerated. Any student that demonstrates this behavior will receive a zero on the lab.
14. Wear only closed toe shoes on lab days. Dress appropriately.