



Physical Science Syllabus

2021-2022

Instructor Information

Instructor

Brandon Hackett, MPH

Email

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(769-218-8694)

Office Location & Hours

Room 140 (1st floor 9th grade
building)
8:00 am-9:00 am

General Information

Description

Welcome to Physical Science,

The Physical Science curriculum is designed to continue student investigations of the physical sciences that began in grades K-9 and provide students the necessary skills to have a richer knowledge base in physical science. This course is designed as a survey course of chemistry and physics. This curriculum includes the more abstract concepts such as the conceptualization of the structure of atoms, motion and forces, and the conservation of energy and matter, the action/reaction principle, and wave behavior. Students investigate physical science concepts through experience in laboratories and field work using the processes of inquiry.

Objectives of Course

1. Students will investigate our current understanding of the atom.
2. Students will explore the nature of matter, its classifications, and its system for naming types of matter.
3. Students will distinguish the characteristics and components of radioactivity.
4. Students will investigate the arrangement of the Periodic Table.
5. Students will compare and contrast the phases of matter as they relate to atomic and molecular motion.
6. Students will investigate the properties of solutions.
7. Students will relate transformations and flow of energy within a system.
8. Students will determine relationships among force, mass, and motion.

9. Students will investigate the properties of waves.

Expectations and Goals

Students are expected to...

- Attend class on a daily basis
- Come PREPARED and READY to WORK
- Participate and (attempt to) complete all class and homework assignments
- Have a positive attitude and willing to try
- Respect self and others
- Refrain from profanity and unwanted comments
- ASK QUESTIONS, ASK QUESTIONS , ASK QUESTIONS

The primary goal is to actively engage students in learning to become self sufficient individuals.

College and Career Readiness Standards

In an effort to closely align instruction for students who are progressing toward postsecondary study and the workforce, the 2016 Mississippi College- and Career-Readiness Standards include grade- and course-specific standards for K-12 science.

The primary purpose of this document is to provide a basis for curriculum development for Grades K-12 teachers, outlining what students should know and be able to do by the end of each grade level and course. Courses for grades K-12 are based on the Mississippi College- and Career-Readiness Standards (MS CCRS).

Course Materials

Required Materials

Computer/laptop

Pen

Notebook paper (optional)

Optional Materials

Highlighter

Learning aides

Required Text

McGraw Hill Physical Science Textbook (will be provide)

Course Outline: Assignments will be checked weekly and entered into the grade book.

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| 1st Nine Weeks Unit 1 – Lab Equipment/Methods of Science & | 3rd Nine Weeks Unit 7 – Motion & Speed/Forces |
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| Measurement/States of Matter Unit 2 – Classification of Matter/Solutions Unit 3 – Properties of Atoms & The Periodic Table/Elements and their Properties | Unit 8 – Energy/Thermal Energy Unit 12 – Nuclear Energy |
| 2nd Nine Weeks Unit 4 – Ionic and Covalent Bonds Unit 5 – Chemical Equations Unit 6 – Acids and Basis | 4th Nine Weeks Unit 9 – Simple machines Unit 10 – Waves & Sound/Electro Magnetic Radiation Unit 11- Electricity & Magnetism/Electric Current |

Course Grading Percentages:

Test.....50%
 Quizzes30%
 Daily Work/Homework10%
 Benchmark.....10%

Grading Scale

A (excellent)= 100-90
 B (above average) = 89-80
 C (average) = 79-70
 D (below average) = 69-60
 F (failure) = 59 and below

For more details, visit the JPS Code of Student Conduct and Handbook at

https://www.jackson.k12.ms.us/cms/lib/MS01910533/Centricity/Domain/93/PDFs/student_handbook.pdf

Attendance

Students are expected to attend class at the assigned time. All students should have daily interaction with Canvas to be marked present.

Homeroom 8:00-8:40 a.m.
 1st/5th Block 8:40-10:20 a.m.
 2nd/6th Block 10:25-12:05 p.m.
 3rd/7th Block 12:10 p.m. – 2:15 p.m.
 4th/8th Block 2:20 p.m. - 4:00 p.m.

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MY EXPECTATIONS:

I have high expectations for this class! I am willing to help and work with you in anyway, however slacking off will not be tolerated. It is very easy to

pass my class—here's how you do it:

- Come to class on time and be ready to work when the bell rings! I start on time!!!
- Do your best work (homework/classwork, studying, labs, group and individual participation)
- Pay attention in class! Ask questions when you don't understand.
- Take good notes
- Complete your projects/assignments on time and to the best of your ability.
- Work cooperatively with your peers, no matter who they are!
- Most important—keep up!!! Homework will be assigned and is crucial to your success.
- Don't get behind...it's a lot harder to catch up than to stay on task!
- Follow all lab safety guidelines – You will lose lab privileges upon violation of these!!
- Follow all policies in student handbook (Tardies, absences, cheating, course repair, academic indifference)

If students do not meet the teacher expectations, the teacher will follow the course of action below:

1st Offense – Teacher/Student Conference

2nd Offense – Parent Contact

3rd Offense – Referral to Administration