

Physical Science

Fall 2016



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Welcome to Physical Science! Physical Science is a captivating subject that helps us understand what is happening in the world around us.

Course Description:

This course studies the fundamentals of chemistry and physics, stressing nomenclature, atomic structures, energy, forces and motion, and mathematical concepts related to both. Physical Science includes classroom and laboratory work. This course meets the physical science requirement for graduation.

Course Goals:

1. Be able to fully and effectively discuss chemistry and physics topics.
2. Gain a proficiency in chemistry and physics vocabulary.
3. Have fun learning and engaging with teacher and peers.



Course Expectations:

Cell Phones:

Cell phone usage in class will be dictated by the JCHS Student Handbook. Cell phones are only to be used in class when specifically instructed and are only to be used as instructed.

Laptops:

Laptop usage will be dictated by the JCHS Student Handbook. Many notes will be taken on paper for this course, however laptops will be used for supplemental activities, homework, quizzes, and most tests. When computers are used in class they are only to be used as instructed.

Remind:

I will be sending out some class updates by Remind. Students will be required to join by following the link: <https://www.remind.com/join/helmmps4>, or by texting "@HelmsPS4" to 81010. Parents are encouraged to join also.

PollEverywhere:

Each student will be required to create a Poll Everywhere account. PollEv will be used in class to help ensure each student is fully understanding the content. Students who have created an account for another class will be able to use the same account in this course.

Class Rules:

1. Be on time.
2. Be prepared.
 - a. Bring all materials to class with you everyday. (Including a charged computer.)
 - b. Be ready to participate.
3. Be respectful of teacher and classmates.
4. Have fun!

Participation:

Participation will be judged on classroom discussions, preparedness, behavior, dedication, and work ethic.

Classroom Sign-Out:

If you leave class, you must sign out AND take a hall pass with you!

Absences:

It is your responsibility to find out what assignments, homework, or quizzes you missed on days that you were absent. I will not seek you out to ensure you receive missed work or to make sure you reschedule a missed quiz.

If you know you will be absent on the day of a test or an announced quiz, please reschedule the test with me prior to the day you will be absent.



Classroom Resources

Supplies:

1. Computer
2. Charger
3. 3-Subject Notebook
4. Pens/Pencils
5. Headphones

***A \$10 lab fee is required for this course.

Schoology:

Schoology will be the primary source for all course content. Notes, assignments, and other resources will be uploaded into Schoology.

Assignments:

Homework:

Homework is always expected to be fully completed and turned in on time. Late work will be accepted with a 25% grade reduction for each day an assignment is late. No exceptions.

Mini-Tests:

Mini-Tests will be given throughout each unit to affirm mastery of topics. The content will look similar to what you will be on the unit/chapter tests.

Tests:

Tests will be given at the end of each chapter or unit. Each test will build on your knowledge acquired up to that point so full understanding of every concept is crucial. Please ensure you understand what we are talking about and come to me if you are unsure of anything!

Labs:

I hope to have a great time this year that will include a few hands-on labs! The most important part of these labs will be safety, but we will cover this as we approach lab dates.



Cheating:

Cheating of any kind, including, but not limited to, sharing or copying answers on a test or quiz by any means at any time, working together on assignments specified as individual work, or allowing others to copy answers from assignments, will result in a 0 for all parties involved.

Be proud of the work you do! Physical Science is a subject that requires a great deal of work to master. Do not interfere with your own success by taking answers from someone else, failing to gain accurate feedback and evaluation of your knowledge. Cheating does not hurt me as the teacher; it will only hurt you and impact your academic success.

Grading:

The grading distribution for this course will be:

Homework: 20%

Classwork: 15%

Mini-Tests: 25%

Quizzes: 15%

Unit-Tests: 25%

The Rowan-Salisbury School System grading scale is as follows:

100-90 A

89-80 B

79-70 C

69-60 D

< 60 F



Course Schedule

Unit 1: Matter: Properties & Change

- a. Properties of Matter
- b. Atomic Structure & Properties
- c. Chemical Bonding
- d. Chemical Equations/Reactions
- e. Solutions/Acids & Bases
- f. Radioactivity

Unit 2: Forces & Motion

- a. Motion, Speed, & Velocity
- b. Acceleration & Forces

Unit 3: Energy: Conservation & Transfer

- a. Energy & Work
- b. Thermal Energy & Heat
- c. Electricity & Magnetism
- d. Mechanical/Electromagnetic Waves

I am here to help you learn physical science and succeed! I only want for each of you to succeed in this class and I will do everything I can to help you do so. Please feel free to speak to me after class and before or after school to ask for help or arrange a time to gain additional instruction.

