

Physical Science Course Syllabus

Mrs. Monchilov

Room 43

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Textbook: Glencoe Physical Science 2017

Course Objectives and Expectations

This course is an introduction to the basic principles of physics and chemistry.

In this course students will learn how to:

- Engage in problem solving, decision making, critical thinking and applied learning.
- Apply mathematics to science
- Develop laboratory skills used in future science courses
- Develop independent reading and study skills

Course Topics

1st 9 Weeks - Physics Topics

- Laboratory Safety
- Scientific method
- Measurement
- Motion
- Force and Newton's Laws
- Work and Energy
- Machines
- Thermal Energy
- Electricity
- Magnetism
- Waves
- Sound
- Electromagnetic Waves

- Light
- Mirrors and Lenses

2nd 9 Weeks - Chemistry Topics

- Matter
- Solids, Liquids & Gasses
- Classifications of Matter
- Properties of Atoms and the Periodic Table
- Properties of Elements
- Chemical Bonds
- Chemical Reactions
- Solutions
- Acids, Bases, Salts

Classroom Expectations

- All rules and regulations from GCBOE code of conduct will be enforced
- Come to class on time with required supplies, ready to work and learn
- Be respectful of instructor and fellow students
- No food, drink or gum allowed in the laboratory classroom
- Cell phones should be turned off and kept out of sight
- Complete all assignments and readings, study for tests and follow all lab directions
- Use class time to listen, learn and complete assignments and to assist classmates in doing the same.
- WORK HARD and don't get discouraged ---YOU CAN DO THIS!

Supplies

- Positive Attitude! Belief that you will succeed in Physical Science.
- Chromebook charged and in class every day.
- Folder to keep all notes, quizzes and handouts – suggested 3 ring binder
- Loose Leaf paper for notes, quizzes and homework
- Pencils and erasers for math calculations, pens are acceptable for other assignments / notes
- Scientific calculator is suggested for out of class assignments

Course Grading

- Tests = 100 points
- Quizzes = 10-50 points depending on content
- Labs = 30-50 points depending on content
- Homework = 10-20 points depending on content
- Homework will be assigned 2-4 days per week. It will be checked on a random basis so make sure that you have attempted all homework assignments.

Students should get help as soon as necessary. Please see me immediately if you are struggling with this course. I am available every day before school.