



PHYSICAL SCIENCE

Melissa Lopez

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LIVE CLASS

Class meets weekly for 90 minutes on Mondays at 9:00 am ET. Class is 30 weeks long.

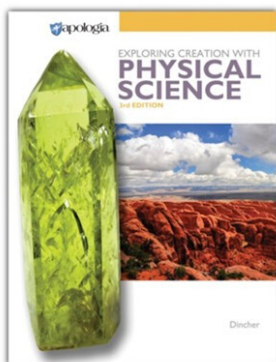


WHAT IS PHYSICAL SCIENCE?

This introduction to formal science provides preparation for high school Biology, Chemistry, and Physics. Students will study topics such as air, the atmosphere, water and the hydrosphere, the structure of the earth, weather, atoms and molecules, the physics of motion, Newton's laws, work and simple machines, electricity and magnetism, sound, light, and nuclear energy. Students will learn how to take measurements, keep experimental data, and to compose a proper technical lab report.



REQUIRED MATERIALS



- Textbook: *Exploring Creation with Physical Science*, 3rd Edition, by Dr. Jay L. Wile, ISBN: 9781593124833
- Lab Materials: A complete list of materials is found in *Exploring Creation with Physical Science*. Lab kits are available for purchase online, or you can collect your own materials using the list.
- Exploring Creation with Physical Science Student Notebook: **OPTIONAL**



class

ATTENDANCE

Students should attend live class as often as possible. If a student does miss class, it is important to watch the class recording as soon as possible.



STUDENT SUCCESS

As with all online classes, active participation is a key component of student success. In order to be an effective learner, students should be aware of deadlines and due dates of all assignments and assessments, check the class pages at least once a week, submit work on time, and talk with Mrs. Lopes if they are having any difficulties with material, work, or other class-related items.



LIVE CLASS INFORMATION

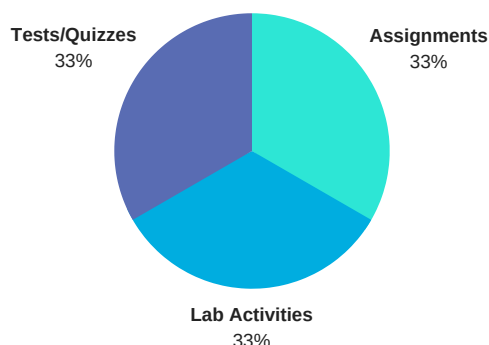
It is important that students attend and participate in live class. Students should save slides, take notes, ask questions, and participate in class discussions. The more actively that a student engages in class, the better he or she will understand the material.



CLASS CONDUCT

Students should treat fellow classmates with kindness and respect. When in class, students should stay on topic, be positive, and use appropriate language. If a student is unable to follow these guidelines, they may be removed from live class.

EXPERIMENT, FAIL, LEARN, REPEAT!



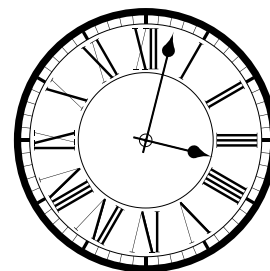
GRADING

Students will be graded on weekly assignments, lab reports and activities, and quizzes/tests. The lowest grade in each category will be dropped at the end of each semester.

A (100-90%) B (89 - 80%) C (79 - 70%) D (69 - 60%) F (59% and below)

LATE WORK

- Students should be aware of deadlines and due dates. Every effort should be made to submit assignments on time. Extensions for late work are rare and should be discussed with the instructor prior to missing a deadline if possible. Assignments turned in after the due date will receive a 10 point deduction for each day they are late. Work submitted more than 10 days late will not be accepted except in extreme situations and with approval from Mrs. Lopez.



SUBMITTING WORK

Assignments are due by Sunday night at 11:59 pm ET. Work should be submitted to the Drop Box in the class page. Files should be submitted as either a pdf or document files. Work submitted in an incorrect file format will be returned with a grade of 0 until the correct file type is submitted.

IMPORTANT DATES

Fall Semester Begins August 17
Fall Break: October 5 - 9
Thanksgiving Break: November 23 - 27
Fall Semester Ends December 14
Spring Semester Begins January 14
Winter Break: February 22 - 26
Easter Break: March 29 - April 2
Spring Semester Ends May 6

INTEGRITY AND ACADEMIC DISHONESTY

An important lesson for students is that no grade is more valuable than their integrity. Academic dishonesty such as copying other students' work, taking credit for information from other sources, or receiving outside help when not allowed will not be tolerated. When in doubt, students should ask Mrs. Lopez about the specific situation. Plan ahead, be informed, and seek help to avoid situations of academic dishonesty.

TENTATIVE SCHEDULE

Fall Semester:

- Week 1: Scientific Method, Hypotheses, Data Conversions
- Week 2: Organizing & Interpreting Data
- Week 3: Substances and Mixtures, States of Matter, Properties
- Week 4: Changes in Matter
- Week 5: Atoms
- Week 6: Periodic Table & Electron Orbits
- Week 7: Chemical Formulas and Bonds
- Week 8: Properties of Water
- Week 9: Naming Compounds
- Week 10: Types of Reactions
- Week 11: Energy of Reactions
- Week 12: Layers of the Earth and Rocks
- Week 13: Weathering and Erosion
- Week 14: Air and the Atmosphere
- Week 15: Air

Spring Semester:

- Week 16: Motion: Speed and Velocity
- Week 17: Motion: Acceleration
- Week 18: Force, Friction, and Gravity
- Week 19: Newton's Laws
- Week 20: Fundamental Forces
- Week 21: Types of Energy
- Week 22: Work
- Week 23: Simple Machines
- Week 24: Waves and Sound
- Week 25: Sound and the Doppler Effect
- Week 26: Electric Force and Circuits
- Week 27: Magnetic Force
- Week 28: Electromagnetic Spectrum and Light
- Week 29: Human Eyes and Color
- Week 30: Applications in Life Science

