

Syllabus: Physical Science

Course Description

This course is an introductory course for physics and chemistry. Basic concepts of our earth are covered, including the atmosphere, hydrosphere, major geological formations, weather, as well as the basics of an atom, Newton's laws and other forces in our world. Hands-on experiments will make use of household chemicals and supplies. Homework will average 3 - 5 hours per week.

Attendance and Participation

Both attendance and participation are vital parts of this course; therefore, students are required to attend class sessions and participate actively in discussions. Students are expected to view archives of any missed classes, and are responsible for obtaining any notes or assignments.

Students will be given quarterly grades for both participation and attendance:

- Fifteen percent of the final grade will be attributed to *relevant class participation*. This includes raising one's hand, commenting regularly via microphone/webcam, and using the chat box regularly to contribute to the academic conversation.
- Five percent of the final grade will be attributed to *class attendance*. Being present, being on time, and readiness for class are all factors to be considered in the class attendance grade. *Excused* absences will not detrimentally impact attendance grades.

Grading rubrics are located in the Course Documents folder in each course page.

Assignments & Exams

There are weekly reading assignments in the physical science textbooks, and on occasion there may be additional readings supplied by the instructor or from online sources. Students are responsible to keep up with the reading for every class period.

Module tests will be assigned at the end of each chapter. There will be an online quiz for each chapter and one major assignment for the year.

Laboratory investigations and experiments are very important. Most of the experiments use household materials. It is important that students complete these exercises in a laboratory science course. These lab activities will be completed at home, though they will be discussed in class. A list of required labs and the written lab format will be posted on the course page.

Students will take a midterm exam and final exam. Exams will cover material discussed during that semester only. All exams should be taken in one sitting and proctored by an adult. Unless directed by the teacher, students are not

permitted to use any helps, books, notes or the internet on any portion of exams. All exams are due at 11:55 PM ET on the date shown. Specific instructions will be provided by the instructor.

Evaluation

The final grade is determined on the following basis:

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|--------------------------------|-----|
| ● Class Attendance | 5% |
| ● Relevant Class Participation | 15% |
| ● Quizzes | 10% |
| ● Formal labs | 15% |
| ● Informal labs | 10% |
| ● Project | 5% |
| ● Exams | 20% |
| ● Midterm/Final Assessment | 20% |

Grading Scale

The following grading scale will apply for all assignments and final grades. 100% – 90% = A; 89% - 80% = B; 79% - 70% = C; 69% - 60% = D; 59% - 50% = E; 49% - 40% = F. All grades are rounded to the nearest whole number.

Late Work

If a student fails to submit any assessment by the due date, it is considered “late.”

- Assignments submitted 0-24 hours late will result in a 10 point reduction off earned grade.
- Assignments submitted 24-48 hours late will result in a 20 point reduction off earned grade.
- Assignments submitted 48-72 hours late will result in a 30 point reduction off earned grade.
- Assignments over 72 hours late will not be accepted and the student will receive a zero.
- Parent may request an extension from their child’s teacher *prior to the due date* or in the case of an emergency.

While we love grace and the opportunity to exercise it, we also desire to instill a sound sense of responsibility in our students, hence these expectations pertaining to late work.

Exam/Test Retakes

Any student may retake a failed assessment (except quizzes), but can score no higher than 70% on the retake. Retakes must be submitted within one week of the returned, failed test. If the retake is not submitted within one week, the original failing grade will stand.

Academic Dishonesty

Cheating on any assignment is considered academic dishonesty. This includes plagiarism in any form. Cheating will be dealt with in the following manner:

- If a student is caught cheating, he will receive a zero on the assignment and will be placed on academic probation for the remainder of the school year.
- If the same student is caught cheating again, he will likely be expelled.
- No refunds will be granted for students who are expelled due to cheating.
- A Disciplinary Action Form will be submitted by the student's teacher for any instance of academic dishonesty.

Textbooks

The books needed for the class can be purchased through Veritas Press. It is extremely important that the student has the correct version/edition of these materials.

Physical Science Course Kit (003557)

- Exploring Creation with Physical Science Student (044060)
- Exploring Creation with Physical Science Solutions/Tests (044061)

The following items are also required, but unfortunately, are not available through Veritas Press:

- Calculator
- Balance or scale (postal or kitchen scale which measures to gram or more precise)
- Drano or NaOH

Course Calendar

See Course Assignment Sheet, located on course page, for class dates, breaks and all assignments and assessments. Class dates and breaks can also be found on the current academic year calendar.