

High School Physical Science

Instructor: Dale Keiser

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General Statement: Science is divided into the study of living things and nonliving things, in other words, the life sciences and the physical sciences. Life sciences include zoology and botany (combine as biology). Physical sciences include astronomy, chemistry, and physics. Physical Science is earth science, an overview of all things that affect the earth.

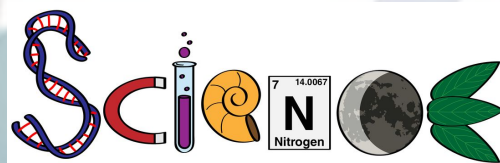
Topics covered will include:

- The Basics
- Air
- The Atmosphere
- The Wonder of Water
- The Hydrosphere
- Earth and the Lithosphere
- Factors that Affect Earth's Weather
- Weather and Its Prediction
- An Introduction to the Physics of Motion
- Newton's Laws
- The Forces in Creation
- Waves and Sound
- Light
- An Introduction to Astrophysics

Materials Required:

- Apologia Exploring Creation with Physical Science, 2nd Ed., textbook.
- Bible (must be brought to each class)
- Scientific calculator such as a TI-084

Class Format: Topics will be presented in a lecture-discussion format with questions from both the instructor and from the students. Class participation by students is expected. Laboratory time will involve e-experiment discussions followed by performance of experiments and/or exercises. Lab work is designed to demonstrate concepts presented in class. Attendance is necessary in both lecture and lab.



Meet the Tutor:

Dale Keiser holds an MA degree in Physical Chemistry from Western Michigan University. He spent 37 years working for The Upjohn Company, Pharmacia and Upjohn, Pharmacia, and Pfizer in both the Control Division and the Research and Development Group. The study of packaging materials comprised a major amount of his career.

His previous and current teaching experiences include: Quantitative Analysis Laboratory sessions while in graduate school and High School Physics Tutor at Kalamazoo Area Tutors (KAT).

He has been married to his wife Barb for 54 years and they attend Calvary Bible Church in Kalamazoo. In his free time he enjoys cycling and mowing the lawn.

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Syllabus:

Class Requirements:

1. Each student must memorize Psalms 24:1-2. The final grade will be withheld until this requirement has been completed.
2. Test will be "take home." Any resources may be used to complete these tests. Completed tests are due at the beginning of the next class session. The scores on these tests will be the major determinant of your grade.
3. Each class session begins at 8:00 AM. Please make every effort to be present on time. Sessions will begin with the proverb of the day. Since the book of Proverbs has 31 chapters, there is one chapter for each day of the month. We will read and discuss one chapter for about the first 20 minutes of each class session. Your attendance is required during these reading and discussions!

Student Conduct:

All the usual rules of REACH Kzoo apply. Do not dress in a provocative manner, treat others with respect, only one speaker talking at a time, complete all assignments, arrive at each class session on time prepared to participate, etc. Even though the concepts we discuss are fairly simple, extra time may be required for some to understand a concept. Every effort will be made to resolve any difficulty, however, it will be at the discretion of the instructor to move on with the class rather than spend everyone's class time for one to catch up.. If there are problems keeping up with the course material help is available - contact the teacher outside of the class sessions by phone or email. Do not fall behind!



Fees:

Tuition: \$350
Registration Fee: \$25 (Non-refundable)

Payments:

- \$25 due at Registration
- \$175 tuition due on 09/08/2021.
- \$175 tuition balance due 01/19/2022

DROP/ADD Policy:

If a student needs to drop this class in the first two weeks, tuition will be refunded. If the drop occurs after the third class, the tuition is non-refundable.

LAMP Families:: \$25.00 Registration Fee due from ALL students. No post dated checks. LAMP Families are required to self-pay for any missed LAMP payments due to a student dropping after the third class or not meeting LAMP requirements during the semester. The yearly balance of what LAMP does not cover is due on or before October 20, 2021.

No new students may add the course after registration closes without consent from both the tutor and REACH.