



WEST HARPETH CHRISTIAN TUTORIAL

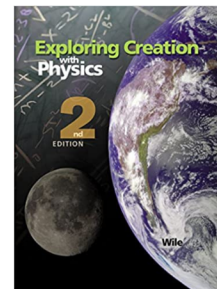
Physics

Tutor:

Susan Winn
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Prerequisites:

- This class is for 11th & 12th grade students.
- Students should take Physics after Geometry and Algebra 2 that included basic trigonometry.
- It is good to take Physics simultaneously with Pre-calculus or higher math.
- Students who have not taken math courses at WHCT will need to take a prerequisite math test to determine readiness for the course.



Course Description

This is an introductory course intended to prepare students for college level physics. The course covers motion, forces, and the natural laws and different forms of energy that make our universe work. Concepts are supported by mathematical formulas and experiments.

Books & Supplies

- **Apologia Exploring Creation with Physics**, 2nd ed.
 - ISBN - 978-1932012422
- **Solutions and Tests for Exploring Creation with Physics**
 - ISBN - 978-1932012439
- Ti83, TI84, or TI84 Plus graphing calculator
- binder or notebook with pockets
- lab supplies covered via lab fee

Commitment

- This course meets once a week.
- Homework includes reading the text, working problem sets, answering review questions and completing lab write-ups.
- Expect to work 3-4 hours outside of class each week.
- Tests are taken at home with supervision at the end of each module.
- There is an in-class quarter exam at the end of each quarter. These are not cumulative.

A typical class will look like...

Students apply their algebra and geometry skills, while learning the foundational principles of mechanics and electromagnetism. We use the Apologia curriculum, but add depth to the topics, do stronger labs and add problem sets from a college textbook, making it a stronger physics course. Class time consists of lectures, problem sets and labs.