



HIGH SCHOOL PHYSICS

A 32-Week Faith-Integrated Science Course for Grades 9–12
Real equations. Real concepts. Real wonder. All pointing to the same Creator.

Science reveals HOW — Scripture reveals WHO.

What Your Student Gains

- ✓ Mastery of core physics equations — the actual math scientists use
 - ✓ Skills in data analysis, graphing, and scientific reasoning
 - ✓ Deep understanding of motion, forces, energy, waves, and electromagnetism
 - ✓ A faith that grows stronger the more they understand creation
 - ✓ Preparation for college-level science and STEM careers
 - ✓ Physics vocabulary and fluency for confident academic conversations
 - ✓ A clear-eyed Christian worldview on gravity, quantum mechanics, and origins
 - ✓ Confidence to ask hard questions and trust the God who made the answers
- "The deeper you go into the science, the more awe-inspiring the Creator becomes."

This Course Is For Students Who...

- ✓ Have completed a general science or pre-physics course
- ✓ Are ready to engage real formulas — not just concepts
- ✓ Want faith and science to grow together — not compete
- ✓ Are in Grades 9–12 (math is supported at every level)

➔ Grade-Level Math Expectations:

9th Grade: Kinematics equations, unit conversions, v-t graphs

10th Grade: Newton's Laws, energy conservation, wave equations

11th Grade: Circuits, Coulomb's Law, optics & lens equations

11th–12th: Quantum mechanics, nuclear equations, $E = mc^2$, relativity

Every student succeeds — math is a tool for wonder, not a barrier to it.

Class Details

Format: Live weekly Zoom session

Length: 32 weeks (full school year)

Grades: 9th–12th (differentiated)

Prereq: General science or pre-physics

Materials: Scientific calculator, notebook, graph paper

Tools: PhET Simulations, Desmos, NASA — all free

Faith: 1 Scripture anchor per week, woven into every lesson

Student Receives Each Week:

- Complete lecture notes to follow and annotate in class
- Weekly vocabulary list (alphabetized, self-quiz format)
- Problem set (graded on process, not just answers)
- Faith reflection connecting physics to Scripture
- Unit Test on last class day of each unit's final week

10 UNITS | 32 WEEKS | 1 AMAZING YEAR EXPLORING GOD'S UNIVERSE

 Unit 1 Intro to Physics	 Unit 2 Kinematics & Motion	 Unit 3 Forces & Newton's Laws	 Unit 4 Energy, Work & Power	 Unit 5 Momentum & Rotation	 Unit 6 Circular Motion	 Unit 7 Waves & Sound	 Unit 8 Light & Optics	 Unit 9 Electricity & Magnetism	 Unit 10 Modern Physics
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"The heavens declare the glory of God; the skies proclaim the work of His hands."

— Psalm 19:1 • Follow the Light Academy • followthelightacademy.org