

■ ADVANCED COSMOLOGY & ASTRONOMY

A 32-Week Faith-Integrated Science Course for Grades 6–12

followthelightacademy.org

Real equations. Real data. Real discoveries. All pointing to the same Creator.

Science reveals HOW — Scripture reveals WHO.

What Your Student Gains

- ✓ Mastery of 21 real astrophysics equations — the actual math scientists use
- ✓ Skills in data analysis, graphing, and scientific reasoning
- ✓ Understanding of how light, gravity, and space-time work
- ✓ A faith that grows stronger the more they understand creation
- ✓ Preparation for college-level science and STEM careers
- ✓ Fluency to discuss astronomy with knowledge and confidence
- ✓ A clear-eyed Christian worldview on dark matter, the Big Bang, and cosmic origins

"The deeper you go into the science, the more awe-inspiring the Creator becomes."

This Course Is For Students Who...

- ✓ Completed introductory astronomy or earth science
- ✓ Are ready to engage real formulas, not just concepts
- ✓ Want faith and science to grow together — not compete
- ✓ Are in grades 6–12 (math is differentiated by level)

Grade-Level Math:

6th–7th: Scientific notation, ratios, scale ...

8th–9th: Kepler's Laws, wave & gravity equa

10th–11th: Logarithms, Stefan-Boltzmann, H

11th–12th: Rocket equation, critical density,

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

Class Details

Format: Live instruction, 4 days per week

Length: 32 weeks (full school year)

Grades: 6th–12th (differentiated)

Prereq: Intro astronomy or earth science

Supplies: Calculator, notebook, colored pencils, graph paper

Tools: Stellarium, NASA, Khan Academy, Zooniverse — all free

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

Students Receive Each Week:

- ✓ Printed lecture notes to follow and annotate in class
- ✓ Student textbook chapter for the week's content
- ✓ Vocabulary list (alphabetized with definitions)
- ✓ Hands-on lab or citizen science activity
- ✓ Faith reflection connecting science to Scripture

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

Unit 1
Foundations
of Physics

Unit 2
Stars: Birth,
Life & Death

Unit 3
Galaxies &
Cosmic Web

Unit 4
Cosmology
& Origins

Unit 5
Exoplanets
& Astrobiology

Unit 6
Space
Exploration

"The heavens declare the glory of God." — Psalm 19:1

Soli Deo Gloria ■■■