



Mathematics for Natural Philosophy: Physical Science

Dr. Ralph “Rafe” E. Spraker, Jr.

RSpraker.ScholeAcademy@gmail.com



Greetings Introductory Physical Science Family,

I look forward to working with your family in Physical Science for the **2022-2023 Scholé Academy school year**. From my 25-year experience in teaching Physical Science, Physics, Chemistry, and Biology I discovered students do not struggle as much with the Physical Science Concepts as they do with is the underlying **Applied Mathematics**. In my previous **on-ground** contexts, I would spend two or more weeks teaching what I now call “**Mathematics for Natural Philosophy for Physical Science**.” In our online context, I believe addressing **Applied Mathematics** with them this Summer in a non-graded club would best replicate this with your student.

If possible, please schedule a **Picktime** session with me over the next two weeks [using this link: <https://www.picktime.com/CogNatE>] so we can discuss together next year and our summer club.

In the Lamb,

Dr. Ralph “Rafe” E. Spraker, Jr

Mathematics for Natural Philosophy: Physical Science

Tuesday/Thursday
11:00-12:00

JULY 5, 7, 9, 12, 14, 19, 21, 26, 28; AUGUST 2, 4

This Club will focus on the five top topics suggested by the **Mathematical Association of America** for **Physical Science** students: Formula and unit conversions; significant figures; Ratios, Proportions; Expressions involving exponents, and Force Diagrams. Ideal preparation for upcoming **SCHOLÉ ACADEMY’s Physical Science**.

My Goal for Natural Philosophy Clubs: All would grow in “**ORDO AMORIS**” (i.e., “**Love for God’s Orderliness**”) and beauty found in His “**OPERA DIGITORUM**” (i.e., “**The Work of Your Fingers,**” *Psalm 8: 3*) as they gain understanding and confidence in **Natural Philosophy** (i.e., “**Love of Wisdom**”).

ABOUT THE INSTRUCTOR:



Greetings **Summer 2022 Natural Philosophy: Physical Science** attendees from glacially formed **Lake Louise** in **Banff National Park**, Alberta, Canada (left above). Notice all three states (ice, mist, and liquid) of water are in the picture.

I'm **Dr. Ralph "Rafe" E. Spraker, Jr.** and I look forward to interacting with each of you. I maintain a two-mile segment of the **Mountains to the Sea Trail** from the "Raven Rock" [BRP Milepost 290 see above right] to the "Aho Gap" [BRP Milepost 288, Elevation 3722] which parallels the **Blue Ridge Parkway** near my home in Boone, NC.

I earned: my **Ph.D.** from the **University of South Carolina** (2010); 3 Master's degrees including an **MSSE** from **Montana State University, Bozeman** (2011); and my Bachelor's degree from **BIOLA University** (1983). I currently teach for **SCHOLÉ ACADEMY: Algebra, Chemistry, Physics**, and:

Information Technology & Statistics*

Northcentral University

Algebra, GeoLogia, & Physics

Ohio Christian University

Algebra

Pacific Islands University

Biology, Chemistry, & Physics

Southern New Hampshire University

*Graduate level

I enjoy **Confessional Lutheran** and **Patristic** theology (**SOLUS CHRISTUS**) and use the **1928 Anglican Prayer Book's Coverdale Psalter** "Morning and Evening."

In the Lamb,

Dr. Rafe Spraker

QUIA LEX PER MOSEN DATA EST
GRATIA ET VERITAS PER IESUM CHRISTUM FACTA EST
IOANNES I : XVII