

## Classes at Town North 2026-2027 School Year

[www.greenroofcoop.com](http://www.greenroofcoop.com)

**Please note the following:**

- Grades listed for all classes are strongly suggested guidelines for placement.
- All classes are held on Thursdays at Prairie Creek Baptist Church located at 3201 W 15th St, Plano, TX 75075. The church is just west of W 15<sup>th</sup> and Independence Pkwy.
- Please contact individual class teachers for more information or to register.

### WRITING

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#### Grammar Lab

Instructor: Debby Schneider

[MrsSchneider.CATN@gmail.com](mailto:MrsSchneider.CATN@gmail.com)

*Recommended for 7<sup>th</sup>- 8<sup>th</sup> grades.* Intended for those students who need to work on their grammar knowledge and their beginning writing skills. The purpose of grammar is to aid in communication, primarily written communication. This class will provide a strong foundation in English grammar and beginning writing. Students will memorize their prepositions, linking verbs, helping verbs, study the parts of speech, the function of words in a sentence, parts of the sentence, phrases, clauses, punctuation, and capitalization rules. Students taking Pre-Academic Writing will find this class especially helpful.

Texts: *Easy Grammar Plus: Student Workbook* by Wanda Phillips

Monthly Tuition: \$50

Materials Fee: \$10

Time: 8:30 – 9:30 am

#### Pre-Academic Writing

Instructor: Lisa Pfeifer

[MrsPfeifer.CATN@gmail.com](mailto:MrsPfeifer.CATN@gmail.com)

*Recommended for 7<sup>th</sup>- 8<sup>th</sup> grades.* The class objective is to strengthen the skills that form the foundation of good writing. In this introductory paragraph writing class, students will develop the fundamental skills for good descriptive, informative and narrative writing. Learning to use sentence variety and to identify many of the problems that occur in sentence formation, the student will apply good grammar techniques to create well-formed paragraphs.

Texts: *Write Shop I* available through Demme Learning

Monthly Tuition: \$50

Materials Fee: \$10

Time: 9:30 – 10:30 am

#### Academic Writing 1

Instructor: Debby Schneider

[MrsSchneider.CATN@gmail.com](mailto:MrsSchneider.CATN@gmail.com)

*Recommended for 8<sup>th</sup> – 9<sup>th</sup> grades.* Throughout the year, students will transition from writing strong sentences and paragraphs to building well-organized essays. Students will gain experience in a wide variety of composition styles, such as descriptive, narrative, and persuasive. In-class discussion, exercises, and writing prompts will be used to reinforce skills. Students will learn to edit their work through regular practice in draft revision. Writing skills will be taught systematically to prepare students for upper-level writing. Texts: *WriteShop II*

Monthly Tuition: \$50

Materials Fee \$10

Time: 10:30 – 11:30 am

#### Academic Writing 2

Instructor: Rhonda Helmreich

[MrsHelmreich.CATN@gmail.com](mailto:MrsHelmreich.CATN@gmail.com)

Recommended to be taken in tandem with Beginning High School Literature or before taking upper high school literature classes. Open to students in the 9th grade and higher. The students will learn the essay-building process. Using the short story, the students annotate, collect, and organize vital information into a usable format to create compelling and robust thesis statements. The student will learn to develop a logical, coherent, and well-supported argument favoring the stated thesis. Emphasis is on various writing techniques to strengthen writing skills for academic situations, ensuring that no student will ever have to stare at a blank page again, wondering how to begin the writing process. Texts: *Windows to the World, The Elegant Essay Writing Lessons: Building Blocks for Analytical Writing*

Monthly Tuition: \$50

Time: 10:30 – 11:30 am

### Academic Writing 3

Instructor: Debby Schneider

[MrsSchneider.CATN@gmail.com](mailto:MrsSchneider.CATN@gmail.com)

*Recommended for 11th-12th grades. Prerequisite: Academic Writing 2, or submission of a five-paragraph essay demonstrating essential skill in thesis construction and essay development.*

In this upper-level class, students will develop the skills necessary for transition into college-level writing. The focus will be given to studying and developing the rhetorical elements, such as consideration of audience, interacting with sources, and the effective use of reason, emotion, and word choice to create a convincing argument. Skills will be reinforced through in-class discussion and analysis of a variety of essays and notable works. Written assignments will include argumentative essays, essays on literature, and research papers. As time allows, college tips will be discussed. *Texts: The Elements of Style, 4th Edition by William Strunk and E. B. White; Essays and Arguments: A Handbook for Writing Student Essays by Ian Johnson; They Say/I Say: The Moves that Matter in Academic Writing, 4th Edition by Gerald Graff and Cathy Birkenstein; Writing Research Papers: The Essential Tools by Lesha Myers*

Monthly Tuition: \$50

Materials Fee \$10

Time: 9:30 – 10:30 am

## LITERATURE

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### (Junior High Level)

#### Intro to Literature 1

Instructor: Lisa Pfeifer

[MrsPfeifer.CATN@gmail.com](mailto:MrsPfeifer.CATN@gmail.com)

*Open to students in the 7<sup>th</sup> and 8<sup>th</sup> grades.* This course is designed to be a first formal experience for literature. Key literary concepts like plot and character analysis will be introduced. Enriching discussion, book projects, writing, and critical thinking will prepare the student for success within a warm, learning community. Several book titles included: *The Bronze Bow, Bridge to Terabithia, Hatchet, Redwall* and *The Magician's Nephew*.

Monthly Tuition: \$50

Materials Fee: \$10

Time: 11:30 am – 12:30 pm

**The classes listed below are in the recommended order. Taking the corresponding History Class with the Literature is also recommended.**

#### Intro to Literature 2

Instructor: Lisa Pfeifer

[MrsPfeifer.CATN@gmail.com](mailto:MrsPfeifer.CATN@gmail.com) *Open to students in the 8<sup>th</sup> and 9<sup>th</sup> grades.*

Intro to Literature 2 provides a broad experience to a variety of classic books for middle school or young high school students. It transitions students into analysis of literary concepts and themes through essays, tests, and projects. This transition takes place with classic books like *To Kill a Mockingbird, The Red Badge of Courage, The Adventures of Tom Sawyer, Johnny Tremain, Amos Fortune* and several other classic books. While preparing students for the academic rigors of high school, this course remains strongly personal and engaging in its approach to literature and encourages the expression and discussion of opinions in a welcoming environment. This course is appropriate for all students in need of preparation for high school literary studies. (This course is a complement to American History)

Monthly Tuition: \$50

Materials Fee: \$10

Time: 8:30 – 9:30 am

### (High School Level)

#### Beginning High School Lit.

Instructor: Melanie Burchfiel

[MrsBurchfiel.CATN@gmail.com](mailto:MrsBurchfiel.CATN@gmail.com)

*Open to students in the 9<sup>th</sup> and 10<sup>th</sup> grades.*

Beginning High School Literature provides a broad experience in reading and analyzing a variety of classic books for young high school students and transitions them into analysis of literary concepts and themes through discussion, essays, and tests. We will delve into *Jane Eyre, Romeo and Juliet, Oliver Twist*, and other classics. While preparing students for an academically vigorous high school experience, this course remains strongly personal and engaging in its approach to literature and encourages the expression and discussion of opinions in a welcoming environment. This course is appropriate for all students in need of preparation of upper level high school literary studies.

Monthly Tuition: \$50

Materials Fee: \$10

Time: 9:30 – 10:30 am

## American Literature

Instructor: Rhonda Helmreich

[MrsHelmreich.CATN@gmail.com](mailto:MrsHelmreich.CATN@gmail.com)

*Prerequisite: Beginning HS Lit or permission from the teacher.* Recommended to be taken concurrently with American Government. This class introduces students to the richness of American Literature reflecting the unique dynamism of our culture and history as exemplified in the rollicking humor of Twain, the moral consciousness of Hawthorne's *The Scarlet Letter*, and the simple beauty of rural life admixed with universal facets of the human condition from the play "Our Town." Literature studies establish the basics of worldview thinking from the transcendentalism of *Walden* to the naturalism of *Moby Dick*. Invigorating class discussion and in-depth literary analysis develops student's critical thinking skills. Writing assignments offer opportunities for logical assessment of theme and characterization and logical argument on the story's more profound meaning and import. Uses many books from Sonlight 400 (This course complements American Government.)

Monthly Tuition: \$50

Materials Fee: \$20

Time: 8:00 – 9:30 am

## 20<sup>th</sup> Century Literature

Instructor: Rhonda Helmreich

[MrsHelmreich.CATN@gmail.com](mailto:MrsHelmreich.CATN@gmail.com)

*Prerequisite: American Literature or permission from the teacher.* This course examines the mindset of the 20th century through modern classics like *The Old Man and the Sea*, *The Great Gatsby*, and *The Metamorphosis*. Reading *Mere Christianity* provides a firm foundation of a Christian worldview, empowering students to formulate a personal statement of Christianity and the theistic worldview. Anchored in the bedrock of theism, students will then analyze the fundamental worldviews displayed in 20th-century Literature utilizing the worldviews outlined in James Sire's *The Universe Next Door*. Literary analysis of themes, characters, plot, historical and social context, symbolism, and style enables students to compare, judge, and evaluate the philosophies presented in each novel. Writing assignments focus on the logical evaluation of the worldview presented in the novel compared with a biblical worldview. The book list is from Sonlight 300. (20<sup>th</sup> Century Literature complements 20<sup>th</sup> Century History.) **Students planning to graduate with CATN are required to complete 20<sup>th</sup> Century Literature or Understanding the Times (Advanced Worldviews).**

Monthly Tuition: \$50

Materials Fee: \$20

Time: 11:30 – 1:00 pm

## British Literature

Instructor: Rhonda Helmreich

[MrsHelmreich.CATN@gmail.com](mailto:MrsHelmreich.CATN@gmail.com)

*Prerequisite: 20<sup>th</sup> Century Literature or permission from the teacher.* British Literature introduces students to the full breadth and beauty of British Literature. Studying masterpieces like *Paradise Lost*, *Beowulf*, *Tale of Two Cities*, *Hamlet*, and several other classics completes the foundation for university-level study and life. Rhetoric literary analysis skills, deepen as the students evaluate an author's message compared with a biblical worldview. Students participate in stimulating class discussions and write essays that focus on literary analysis at an advanced level. Also, individual book projects encourage students to interact with a piece of Literature using their unique gifts, interests, and talents. Many of the novels studied are at the Advanced Placement level. The class includes many books from Sonlight's "Survey of British Literature" 530 course.

Monthly Tuition: \$50

Materials Fee: \$20

Time: 9:30 – 10:30 am

## SPEECH and COMMUNICATION

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### Beginning Speech and Debate

Instructor: Melanie Burchfiel

[MrsBurchfiel.CATN@gmail.com](mailto:MrsBurchfiel.CATN@gmail.com)

*Recommended for 9-12- grades.*

This fun and challenging course introduces students to excellence in communication skills. Students learn the importance of listening, knowing one's audience, speech structures, and delivery techniques. Students will be challenged to prepare and deliver platform speeches, interpret literature or poetry, and to be able to prepare a short speech "on the spot." In debate, students will learn to consider real-world issues from a biblical worldview and use respectful and structured argumentation to communicate a winsome message to their audience. This course invites students to apply what they are learning in other disciplines in a fun and interactive environment.

Texts: *Instructor will provide handouts for this class.*

Monthly Tuition: \$50

Materials Fee: \$20

Time: 1:30 – 3:00 pm

## ECONOMICS, HISTORY & WORLD VIEWS

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### American History - [High school credit] Instructor: Derek V. Baker

[MrBaker.CATN@gmail.com](mailto:MrBaker.CATN@gmail.com)

Open to students in 8<sup>th</sup> – 9<sup>th</sup> grade. We will use William J. Bennett's *America: The Last Best Hope* as the

primary text for this high school history course. Written in a compelling narrative style, the book traces the American story from the founding era through modern times, highlighting key leaders, defining moments, and the moral ideas that shaped the nation. Students will explore political, cultural, and religious influences while engaging primary themes of liberty, responsibility, and civic virtue. The course emphasizes thoughtful discussion, historical analysis, and an appreciation for America's Christian heritage, free of partisan rhetoric, equipping students to understand the past and evaluate the present with discernment. Materials: *The Last Best Hope* by William J. Bennett. I will supply all tests and quizzes, as well as a pocket Constitution.

Monthly Tuition: \$55.

Materials Fee: \$50

Time: 9:30 – 10:30 am

### **World History**

Instructor: Lori Taylor

[MrsTaylor.CATN@gmail.com](mailto:MrsTaylor.CATN@gmail.com)

Open to students in 9th -10th grade. Using Master Books' World History students will journey around the world from creation to early 20 th century solidifying the student's comprehension of world history with a biblical worldview. As per masterbooks.com "Students will develop their Christian worldview while forming their own understanding of world history trends, philosophies, and events in James Stobaugh's examination of historical theories, terms, and concepts." See the Master Books website for the table of contents. We will cover Chapters 1-31. Although written for 10-11 th grade, the course is adjusted for 9 th grade students. The course investment is about 30-45 minutes per day five days a week. Textbook is provided and is part of the materials fee.

Monthly Tuition: \$50

Materials Fee: \$50 includes textbook

Time: 8:30 – 9:30 am

### **20th Century World History**

Instructor: Lundy Taylor

[MrTaylor.CATN@gmail.com](mailto:MrTaylor.CATN@gmail.com)

Open to students in the 10th – 12th grades. A high school level survey of 20<sup>th</sup> – 21<sup>st</sup> century world history. Unique in all human history, the 20th century is the first to be documented, not just in word, but also in images. This period saw unprecedented change in many areas of our lives including the way we travel, communicate, entertain, and resolve conflict. Focusing on the 20th century and into the beginning of the 21st century, we see the formation and basis of conflicts and philosophies that affect our world today. Students are required to give 2 oral presentations on relevant current topics or trends that have historical context complete with PowerPoint slides to accompany their presentation. Apart from facts and events the class will also delve into causes and effects. Why did Oskar Schindler spend his entire war fortune to save the lives of 1200 Jews? Why did John Rabe, a registered Nazis, create a war free zone in Nanking, China in 1937, saving the lives of 250,000 people? Why did Hitler inexplicably stop his advance on the trapped soldiers at Dunkirk, allowing British citizens using any sea-worthy boat available to cross the channel and ultimately rescue the lives of 338,000 men - known as the miracle of Dunkirk. Why did the Great Depression, despite the herculean efforts of Roosevelt and his many welfare programs continue unabated until 1941. We will discuss these and other events and persons in the light of God's sovereignty. Texts are loaned to students for the year. Readers are the responsibility of the student.

Monthly Tuition: \$55

Materials Fee: \$50

Time: 10:30 -11:30 am

### **American Government**

Instructor: Jenn Vermeulen

[MrsVermeulen.CATN@gmail.com](mailto:MrsVermeulen.CATN@gmail.com)

Open to students in the 10th – 12th grades. This course offers an in-depth study of American civil government, including a study of the U.S. Constitution, the structure of the federal government, and the merits of limited government. Through critical analysis of historical documents, including *The Federalist Papers*, students develop a rich appreciation for how the government is supposed to work and what it means to be a citizen of the United States. Class time will be spent discussing current events, discussing predominant political ideologies since the Enlightenment, and discussing how the government impacts daily lives and personal freedom. Maximum class size: 12.

Monthly Tuition: \$50

Materials Fee: \$20

Time: 10:30 – 11:30 am

### **Intro Economics + Personal Finance** Instructor: Brad Elledge

[MrElledge.CATN@gmail.com](mailto:MrElledge.CATN@gmail.com)

*Open to Students in the 11th and 12th grades*

This class starts with the big picture on the principles that enable economies to work, or not work, and concludes with the practicals of managing your own individual economy by exploring the key elements of personal finance.

**Economics:** This class begins with an overview of economic history and principles for creating a production and distribution system that meets humanity's needs, builds wealth, and contributes to human flourishing. We

will cover the economic history of the 20th century and what it taught us about the importance of economic freedom, and we will dive into the key principles of economic thinking, the first being, “incentives matter.” Our curriculum, *Oikonomia: Economics for Life*, was compiled by a homeschool mom with the help of several Christian economics professors. The course includes over 40 articles and 100 video segments, making it a fun and energizing introduction to economics. The emphasis is on policy, principles, and behavior, and almost no math.

Students will come to understand inflation, competitive markets, capital investment, transaction costs, cronyism, stimulus packages, bailouts, regulations, free trade, and whether they help or harm the economy. They will see how property rights, the rule of law, free association, and free exchange best promote human flourishing; but, most importantly, students will see that it is biblical truth that explains why they do.

**Personal Finance:** 29 states have passed legislation that makes a personal finance class a high school graduation requirement, and Texas just passed such a law in the last legislative session. Jesus had more to say about money than just about any other topic. Why is that? Because money is typically the main competitor for our devotion--it's the default idol people too often fall prey to. The Bible offers 500 verses on prayer, fewer than 50 verses on faith, but more than 2,350 verses on money and possessions. So, learning the mindset and tools to be a good steward of what the Lord has entrusted to us is critical. We will use Paul Tripp's book, *“Redeeming Money,”* to align our hearts and heads with godly financial stewardship principles. Also, *Next Gen Personal Finance and Personal Finance Lab*, along with other resources, will provide a deep dive into the tools for managing one's finances. There are numerous game simulations, including *The Stock Market Game*, *The Budgeting Game*, *How to Pay for College*, and more, in the course, making this a highly engaging exploration of personal finance.

Monthly Tuition: \$75

Materials Fee \$50.

Time: 11:30 am –1pm

### **World Views Advanced – Understanding the Times [UTT]** Instructor: Brad Elledge

[MrElledge.CATN@gmail.com](mailto:MrElledge.CATN@gmail.com)

*Open to Students in the 10th through 12th grades.*

The philosophical author David Foster Wallace said, “There is no such thing as not worshipping. Everybody worships. The only choice we get is what to worship.” And several religious and philosophical systems out there interpret how the world works and how we should think that are NOT aligned with the biblical God's created order, and are not shy about declaring their superiority.

What we understand about God and the world affects what we believe about everything else. “*Understanding the Times*” is a curriculum from Summit Ministries that equips Christians to engage effectively in the battle of ideas. It offers a comprehensive look at how the tenets of the Christian worldview compare with five major competing worldviews of our day: Islam, Secularism, Marxism, Post-Modernism, and New Spirituality, providing a systematic way to understand the ideas that rule our world. Current events and hot topics will be an ongoing part of our flipped classroom approach, which uses group discussion as its primary methodology. Our objective for the year is to conclude that the search is over: Biblical truth reigns supreme, and no other worldview provides as accurate and adequate an explanation of reality and how we should live.

Monthly Tuition: \$60.

Materials Fee: \$30

Time: 10:30 – 11:30 am

## **GEOGRAPHY**

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### **Geography**

Instructor: Jenn Vermeulen

[MrsVermeulen.CATN@gmail.com](mailto:MrsVermeulen.CATN@gmail.com)

Open to students in the 10th – 12th grades. Continent by continent, we will tour the nations and learn traditional geographical knowledge including countries, river systems, mountain ranges, bodies of water, and other important landmarks. The students will explore the cultural heritage of people groups, as well as the economic conditions, systems of governance, and geopolitical realities across nations and regions. Over the course of the year, students will memorize country names, give oral presentations, and discuss current events from around the world. It is recommended to take this course either prior to or during the study of 20th Century World History. Class limited to a maximum of 12 students.

Monthly Tuition: \$50

Materials Fee: \$20

Time: 9:30 – 10:30 am or 11:30 – 12:30 pm

## **MATH**

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### **PreAlgebra**

Instructor: Cindy Moser

[MrsMoser.CATN@gmail.com](mailto:MrsMoser.CATN@gmail.com)

*Prerequisite:* None, taking placement test from Math-U-See website is recommended. This class covers negative numbers, order of operations, solving for the unknown, and other topics listed on the Math-U-See website.

Text: *Math U See Pre-Algebra Student Workbook & Test Booklet*

Monthly Tuition: \$40

Materials Fee: \$20

Time: 1:30 - 3:00pm

## Algebra 1/2

Instructor: Amanda Redding

[MrsRedding.CATN@gmail.com](mailto:MrsRedding.CATN@gmail.com)

*Prerequisite: Completion of a middle school math course; contact the instructor if you have questions on the transition from your completed middle school math curriculum to Saxon.*

*Course Description:* This course serves as a transition between middle school math and Algebra 1 to solidify pre-algebra skills while learning to solve math problems algebraically and learn the elementary concepts of algebra. Students will apply these concepts to geometry topics as well. Other topics include fractions, order of operations, ratios, proportions, exponents, roots, unit conversions, probability, Pythagorean Theorem, and more! Students can expect to complete 3-4 lessons a week, or around 80 problems a week, and increasing to about 120 problems assigned per week by the end of the second semester. Students will prepare in this way for the pace of Saxon Algebra 1, which requires about 4 lessons and 120 problems worked a week. New material will be presented and taught in class; homework will be graded at home by a parent. The instructor will grade quizzes, tests, and spot check homework for common errors and correct form. Saxon is incremental and cumulative, introducing new concepts in small steps while reviewing previously learned material. Students who do well in this class are typically 7th or 8th graders who have completed a middle school math text (with or without pre-algebra topics). Placement tests are available, please contact the instructor with any questions on a best fit for your student.

Text: *Saxon Algebra 1/2, 3rd edition* Textbook, ISBN 1-56577-149-4 and Solutions Manual ISBN 1-56577-131-1

Monthly Tuition: \$70.

Materials Fee: \$25

Time: 11:30 – 1 pm

## Algebra 1

Instructor: Amanda Redding

[MrsRedding.CATN@gmail.com](mailto:MrsRedding.CATN@gmail.com)

*Prerequisite: Completion of a pre-algebra course/8th grade middle school math with prealgebra topics.*

*Course description:* This course uses the classic *Saxon Algebra 1 (3rd edition)* which covers the traditional topics covered in a first-year algebra course, providing a firm foundation for higher level math courses. Topics include functions and relations, linear and quadratic equations and graphs, polynomials, inequalities, systems of equations and inequalities, rational and radical expressions, probability, data analysis, and more. Students can expect to complete 4 lessons a week, solving about 120 assigned problems weekly. There will be some weeks with a higher workload when we have tests/offer test corrections. New material will be presented and taught in class; homework will be graded at home, either by the student (if mature enough for the task) or the parent. The instructor will grade quizzes, tests, and spot check homework for common errors and correct form. Saxon is incremental and cumulative, introducing new concepts in small steps while reviewing previously learned material. Students who do well in this course are proficient computing in all four operations using integers (both positive and negative numbers) and fractions, as well as having had some exposure to radicals/roots (with perfect squares memorized to 12), writing expressions, and solving one step equations. Placement tests are available, please contact the instructor with any questions on a best fit for your student.

Text: *Saxon Algebra 1, 3rd edition*, Textbook, ISBN 1-56577-134-6 and Solutions Manual ISBN 1-56577-137-0

Monthly Tuition: \$70

Materials Fee: \$25

Time: 1:30 – 3:00 pm

## Geometry

Instructor: Michelle Price

[MrsPrice.CATN@gmail.com](mailto:MrsPrice.CATN@gmail.com)

*Prerequisite: Completion of Algebra 1 with a grade of 'B' or better.*

*Course Description:* This class features a proof-based approach to geometry. We will cover lines, angles, direct and indirect proofs, congruence, inequalities, parallel lines, quadrilaterals, transformations, area, similarity, triangles, circles, concurrence theorems, and more.

Text: *Geometry: Seeing, Doing, Understanding*, 3rd Edition by Harold R. Jacobs.

Monthly Tuition: \$70

Materials Fee: \$15

Time: 11:30 – 1:00 pm

## Algebra 2

Instructor: Michelle Price

[MrsPrice.CATN@gmail.com](mailto:MrsPrice.CATN@gmail.com)

*Prerequisite: Completion of Algebra 1 with a grade of 'B' or better and preferably Geometry.*

*Course Description:* This course will cover the topics typically covered in a High School Algebra 2 course as well as a considerable amount of geometry. Designed to prepare students for pre-calculus and college level math, this text will use real-world, abstract, and interdisciplinary applications. Topics include geometric functions like angles, perimeters, and proportional segments; negative exponents; quadratic equations; metric conversions; logarithms; and advanced factoring. In addition, the course covers uniform motion, chemistry-related problems, simultaneous equations with 2 and 3 variables, non-linear equations, right- triangle

trigonometry, conversion from rectangular to polar coordinates, addition of vectors, complex numbers, and quadratic formulas.

*Text: Saxon Algebra 2, Third Edition Textbook and Solutions Manual*

Monthly Tuition: \$70

Materials Fee: \$20

Time: 1:30 – 3:00 pm

### **Pre-Calculus**

Instructor: Rick Moser

[MrMoser.CATN@gmail.com](mailto:MrMoser.CATN@gmail.com)

*Prerequisite: Successful completion of Algebra 2 and Geometry.*

Course Description: Entry to the Pre-Calculus course follows successful completion of Algebra 2 and Geometry; its purpose is to prepare the student for college Calculus and related STEM classes. The course provides in-depth coverage of trigonometry, logarithms, analytic geometry, and upper-level algebraic concepts. Intermediate algebraic concepts will be reviewed, and related to lessons about functions, matrices, and statistics. The entire book will be covered, and students will be fully prepared for calculus. A graphing calculator (TI-84 Color Edition highly recommended) is required as part of the course. *Saxon Advanced Math, 2<sup>nd</sup> Edition* is the assigned textbook for this course. Students should purchase both the textbook and the Solutions Manual for this course.

Monthly Tuition: \$70

Materials Fee: none

Time: 8:00 – 9:30 am

### **Individualized Math Instruction**

Instructor: Jon Motter

[MrMotter.CATN@gmail.com](mailto:MrMotter.CATN@gmail.com)

*Open to students in the 10<sup>th</sup> – 12<sup>th</sup> grades.*

Some students experience challenges mastering critical mathematical concepts that are essential to success with higher level Mathematics. This offering is intended to review and reinforce key mathematics skills on an individual basis so that students can successfully pursue higher-level STEM-related classes or more rudimentary college math classes. Instruction is customized based on individual student needs. For example, students may review subjects such as arithmetic fundamentals, geometry, fractions, ratios, probability, and statistics. Moreover, students may review concepts such as the metric system, repeating decimals, scientific notation, Pi, graphing inequalities, and the slope intercept form of linear equations. In addition, major mathematical theories, such as the Pythagorean Theorem can be reviewed. Finally, students can apply these concepts to SAT-type problems so that they can successfully integrate concepts with mathematics test questions in a variety of formats. A graphing calculator (TI-84 or higher) is required as part of the course. Textbooks will vary based on individual student needs.

Monthly Tuition: TBD

## **SCIENCE**

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### **General Science**

Instructor: Cindy Moser

[MrsMoser.CATN@gmail.com](mailto:MrsMoser.CATN@gmail.com)

Open to students in 7th and 8th grade; this class provides an in-depth introduction to science and the scientific method, including labs and lab reports. Other topics covered include an introduction to various branches of science: Earth Science, Biology, Chemistry, Physics, Marine Science and Environmental Science.

*Text: Apologia's Exploring Creation with General Science, 3<sup>rd</sup> Edition by Sherri Seligson, released in Spring 2019.*

Monthly Tuition: \$40

Materials Fee: \$15

Time: 10:30 – 11:30 am

### **Physical Science**

Instructor: Cindy Moser

[MrsMoser.CATN@gmail.com](mailto:MrsMoser.CATN@gmail.com)

*Prerequisite: For students in 8th or 9th grade, concurrently at a minimum of pre-algebra math level and able to work with fractions and decimals.* Physical Science will first review concepts covered in General Science, including the scientific method, making observations, hypotheses, analyzing data, and measuring. This will be followed by modules on chemistry, physics and earth science.

*Text: Apologia's Exploring Creation with Physical Science 4<sup>th</sup> Edition by Vicki Dincher, released Summer 2024.*

Monthly Tuition: \$40

Materials Fee: \$15

Time: 11:30 – 12:30 pm

### **Biology**

Instructor: Stacy Thorne

[MrsThorne.CATN@gmail.com](mailto:MrsThorne.CATN@gmail.com)

Open to students in 9th – 11th grades. **Discovering Design with Biology** is a lab-focused course that explores God's design in living organisms and their interactions with the environment. Students study core

biology topics including cell structure and function, the cell cycle, DNA, photosynthesis, and an introduction to modern biotechnology. Class time includes hands-on experiments, microscope work, and occasional dissections. Students can expect to spend 45-60 minutes per day reviewing class notes and the textbook. Weekly assignments include vocabulary memorization and written review questions.  
Text: *Discovering Design with Biology*, (textbook only, not Answer Key & Tests), by Dr. Paul Madtes Jr. and Dr. Jay Wile, Berean Builders, 2023.

Monthly Tuition: \$70

Materials Fee: \$45 Dissection Kit \$13 (you may provide your own)

Time: 11:30 am – 1:00 pm OR 1:30 – 3:00 pm

## Chemistry

Instructor: Lori Taylor

[MrsTaylor.CATN@gmail.com](mailto:MrsTaylor.CATN@gmail.com)

*Prerequisite:* Successful completion of Algebra I with a grade of 'B' or better.

*Course Description:* In Chemistry, students dive deeper into the fundamental concepts and applications of the composition of matter, its properties, and the changes it undergoes. The goal in this course is to develop a deeper appreciation for God and His design as we learn how important and significant chemistry is in our everyday lives. The principles learned involve both qualitative and quantitative study which are also applied to the lab work. The experiments in the curriculum are completed with some variations and extra activities to provide students with hands-on experience and a visual of the concepts while developing laboratory skills. This course covers the traditional topics covered in High School including molecular structure, chemical bonding with its geometry, basic chemical reactions including acid-base and redox reactions, ideal gases, thermodynamics, chemical kinetics and equilibrium, among others. Each chapter includes math-related work, which serves to increase the student's problem-solving skills and logical reasoning while developing an understanding of molecular interactions. Additional online study/help sessions are available as need

*The textbook (loaned for the year), experiment sheets, and lab equipment and materials are provided.*

Textbook provided: *Discovering Design with Chemistry*, Dr. Jay L. Wile, Berean Builders

Monthly Tuition: \$70

Materials Fee: \$50

Time: 11:30 am – 1:00 pm OR 1:30 – 3:00 pm

## Human Anatomy and Physiology

Instructor: Stacy Thorne

[MrsThorne.CATN@gmail.com](mailto:MrsThorne.CATN@gmail.com)

*Prerequisite:* *Prerequisite: For students in the eleventh grade or higher who have completed chemistry with an average of "B" or above or tenth graders who have completed the above requirements with approval from the instructor.* The course covers in-depth human anatomy and physiology with a focus on the integumentary, skeletal, muscle, nervous, endocrine, circulatory, lymphatic, digestive, respiratory, urinary, and reproductive systems. Lab work consists of microscopic experiments with prepared slides of human tissue. Dissection work includes sheep's eye, heart, kidney and brain, and a fetal pig.

Text: *Apologia Exploring Creation with Advanced Biology, The Human Body*, 2<sup>nd</sup> Edition (textbook only, not the Student Notebook, nor the Solutions Manual & Tests)

Monthly Tuition: \$70    Materials Fee: \$110 includes: Specimens \$60 + Additional Manuals \$37 + Dissection Kit \$13. If your student has the dissection kit, deduct \$13.

Time: 8:00 – 9:30am

## Physics

Instructor: Lundy Taylor

[MrTaylor.CATN@gmail.com](mailto:MrTaylor.CATN@gmail.com)

*Prerequisite:* Physics requires a different mind-set that takes time for students to adjust to. This college prep physics course is designed to lead your student through that transformation building problem solving skills along the way. It is for students who have completed Algebra 1 and Geometry and preferably taking Algebra 2 or Precalculus as co-requisites. This course views God's creation as ordered, understandable and the product of intelligent design. It covers aspects of motion, free fall, Newton's Laws, work and energy, momentum and their circular motion equivalents, simple harmonic motion, waves, optics, circuits, electrostatics, magnetic induction, motors, special relativity, quantum mechanics and more. The course emphasizes hands-on, quantitative physics. Labs are done in class. A concerted effort is made to correlate theory with measurement through careful lab work. Mathematical concepts, not necessarily covered in an Algebra 2 course, will be taught in class. The course will introduce students to vectors, trigonometry, vector fields, periodic and circular functions and other topics as needed for modeling physical systems. Curriculum is based on BJU Physics. *A textbook is provided as well as equipment to perform all experiments. Students will need a cell phone as we use its sensors to make physical measurements and a scientific graphing calculator*

Monthly Tuition: \$75

Materials Fee: \$50

Time: 8:00 – 9:30 am or 1:30 – 3:00 pm