

Classes at Town North Presbyterian Church 2023- 2024 School Year

www.greenroofcoop.com

We welcome to Town North Mrs. Vermeulen who will teach Geometry and American Government and we welcome back Mrs. Walsted who will teach UTT and Walking in Truth.

Please note the following:

- Grades listed for all classes are strongly suggested guidelines for placement.
- All classes are held on Thursday at Town North Presbyterian Church in Richardson (1776 N. Plano Rd) two blocks south of the intersection of Campbell and Plano Rd.
- Please contact individual class teachers for more information or to register.

WRITING

Grammar Lab Instructor: Lisa Pfeifer 214-418-1126
MrsPfeifer.CATN@gmail.com

Recommended for 7th- 9th 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 study the parts of speech, the function of words in a sentence, parts of the sentence, phrases, clauses, punctuation, and capitalization rules. Students will utilize their newly learned skills in various writing exercises each week.

Texts: *Easy Grammar Plus: Student Workbook* by Wanda Phillips
Monthly Tuition: \$45 Materials Fee: \$10

Time: 8:30 – 9:30 am

Pre-Academic Writing Instructor: Lisa Pfeifer 214-418-1126
MrsPfeifer.CATN@gmail.com

Recommended for 7th- 8th 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: \$45 Materials Fee: \$10

Time: 9:30 – 10:30 am

Academic Writing 1 Instructor: Debby Schneider 972-955-2920
MrsSchneider.CATN@gmail.com

Recommended for 8th – 9th 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: \$45 Materials Fee \$10

Time: 10:30 -11:30 am

Academic Writing 2 Instructor: Rhonda Helmreich 972 -762-8982
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 and higher. Students in this class 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 how to develop a logical, coherent, and well-supported argument in favor of the stated thesis. AW2 will also address preparation for the writing portion of the SAT. 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: \$45

Time: 10:30 – 11:30 am

Academic Writing 3
MrsSchneider.CATN@gmail.com

Instructor: Debby Schneider

972-955-2920

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, the ACT and SAT essays will be discussed, as well as the personal essay used for college admissions.

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 – 10:30am

LITERATURE

(Junior High Level)

Intro to Literature 1

MrsDeMetrotion.CATN@gmail.com

Instructor: Jaree DeMetrotion

972-569-7437

*Open to students in the 7th and 8th 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 Prince and the Pauper.**

Monthly Tuition: \$45

Materials Fee: \$10

Time: 11:30 – 12:30 pm

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

Intro to Literature 2

MrsDeMetrotion.CATN@gmail.com

Instructor: Jaree DeMetrotion

972-569-7437

Open to students in the 8th and 9th 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,* 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: \$45

Materials Fee: \$10

Time: 8:30 – 9:30 am

(High School Level)

Beginning High School Lit.

MrsDeMetrotion.CATN@gmail.com

Instructor: Jaree DeMetrotion

972-569-7437

Open to students in the 9th and 10th grades

Beginning High School Literature provides a broad experience to a variety of classic books for young high school students and transitions students into analysis of literary concepts and themes through essays and tests. This transition takes place with classic books like *Jane Eyre, Romeo and Juliet, Oliver Twist,* 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 upper level high school literary studies.

Monthly Tuition: \$45

Materials Fee: \$10

Time: 9:30 – 10:30 am

American Literature

Instructor: Rhonda Helmreich

972 -762-8982

MrsHelmreich.CATN@gmail.com

Prerequisite: Beginning HS Lit or permission from the teacher. 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." The basics of worldview thinking are established through literature studies, from the transcendentalism of *Walden Pond* 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, along with logical argument on the more profound meaning and import of the story. Uses many books from Sonlight 400 (This course is a complement to American Government.)

Monthly Tuition: \$45

Time: 8:00 – 9:30 am

20th Century Literature

Instructor: Rhonda Helmreich

972 -762-8982

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*. A firm foundation of the Christian worldview is established using *Mere Christianity* empowering students to formulate a personal statement of Christianity and the theistic worldview. Anchored in the bedrock of theism, students will then explore and 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. Book choices are from Sonlight 300. (This course is a complement to 20th Century History.) **This class or Understanding the Times (Advanced Worldviews) is required for all students graduating with CATN.**

Monthly Tuition: \$45

Materials Fee: \$20

Time: 11:30 – 1:00 pm

British Literature

Instructor: Rhonda Helmreich

972 -762-8982

MrsHelmreich.CATN@gmail.com

Prerequisite: 20th Century Literature or permission from the teacher. This class 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-level 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 Advanced Placement level. Uses many books from Sonlight's "Survey of British Literature" 530

Monthly Tuition: \$45

Materials Fee: \$20

Time: 9:30-10:30 am

ECONOMICS, HISTORY & WORLD VIEWS**American History**

Instructor: Barbara Walsted

972-816-5242

MrsWalsted.CATN@gmail.com

Open to students in the 8th - 9th grades. A survey of American History using Joy Hakim's award winning series "A History of US". This class will take a balanced approach to points made in this series. Using these tools, we will focus on key events and people, and seek to understand how our country was established and developed. This class will help students appreciate our heritage as well as have a better understanding of our culture and world today. (This course is a complement to either the Intro or Beginning High School Literature class.) **Estimated homework time: 2-4 hours/week - depending on how quickly students read.**

Monthly Tuition: \$50

Materials Fee: \$35

Time: 9:30 – 10:30 am

20th Century World History

Instructor: Lundy Taylor

214-870-2293

MrTaylor.CATN@gmail.com

Open to students in the 10th – 12th grades. A high school level survey of 20th century world history using some core books from Sonlight's 20th Century World History core. Unique in all of 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. By first reviewing the 19th century, focusing on the 20th century and into the beginning of the 21st century,

we see the formation and basis of conflicts and philosophies that still greatly affect our world today. Resources used include 2 core books covering events and images of the 20th century, biographies and historical fiction, movies, eyewitness interviews, and film clips from the various time periods. (This course is a complement to 20th Century Literature.)

Monthly Tuition: \$45

Materials Fee: \$15

Time: 10:30 -11:30 am

American Government

Instructor: Jenn Vermeulen

214-226-6021

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, students develop a rich appreciation for how 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, participating in structured debates, and discussing how the government impacts daily lives and personal freedom. This primary text for this class is Sonlight's American Government/Civics 400 History, with supplemental texts noted in the syllabus.

Monthly Tuition: \$45

Materials Fee: \$20

Time: 10:30 – 11:30 am

Personal Finance/Economics

Instructor: Larry Walsted

972-793-3391

MrWalsted.CATN@gmail.com

Open to students in the 11th and 12th grades.

The homework is very minimal and averages approximately 1-1.5 hours a week.

This class blends together traditional economics along with the most crucial part of economics, the personal finance equation, using an exciting Dave Ramsey program designed specifically for high school students.

Economics: focuses on a practical understanding of our economy, covering both micro and macroeconomic principles – including supply and demand and how our lives are affected by government, business, and banking practices.

Text: *Economics – 2nd Edition.*

Personal Finance: Effectively teaches students the practical applications of personal finance, using methods that are both entertaining and engaging, building a solid foundation on which to build their financial future that they will use daily. This is a new Dave Ramsey curriculum specifically designed for students in a classroom setting.

Major topics covered include:

1. Introduction to Personal Finances
2. Savings
3. Budgeting
4. Debt
5. Life after High School
6. Consumer Awareness (class description continues on the next page)
7. Bargain Shopping
8. Investing and Retirement
9. Insurance
10. Money and Relationships
11. Careers and Taxes
12. Giving

This class will mold the financial future of students. They will be empowered, equipped, and entertained while building confidence in their own financial decision-making abilities. *The Personal Finance student workbook will be provided.*

Monthly Tuition: \$70

Materials Fee \$50

Time: 11:30-1:00pm

Worldview Introduction – Walking in Truth Instructor: Barbara Walsted

972-816-5242

MrsWalsted.CATN@gmail.com

Open to students in the 9th – 10th grades. It is recommended to take this class before upper level high school classes. The design and goals for *Walking in Truth* are based on the premise that no worldview curriculum can, or should, provide an exact model for Christian thinking and action. Rather, a worldview curriculum must present a framework of biblical truth and values, encourage students to reflect upon it, and provide opportunities for students to apply what they have learned. Ultimately, it is up to students to individually embrace biblical truth and to act upon it as they are enabled by the Holy Spirit. Within these parameters, the goal of *Walking in Truth* is to help students develop a cohesive Christian worldview through which they can interpret the world around them and respond to it biblically in both their thoughts and actions. It prepares

students to answer the big questions about God, the universe, people, truth, and right and wrong. Walking in Truth also equips students to identify the inherent contradictions, and false ideas of unbiblical worldviews.
Monthly Tuition: \$50 Materials Fee: \$50 Time: 8:30 – 9:30 am

Worldview Advanced - UTT
MrsWalsted.CATN@gmail.com

Instructor: Barbara Walsted

972-816-5242

*Recommended for students in 11-12th grades. Understanding the Times is a digital discussion-driven worldview course designed by Summit Ministries to equip students to become champions of the Christian faith - before heading off to any university, and/or the workforce. The writers of the program believe that those who are using this curriculum are playing a major strategic role in equipping the next generation of Christian men and women. UTT brings a host of Christian worldview and apologetic ideas into focus. It is designed to help students understand the system of belief of the Christian worldview and how it compares with the beliefs of other leading worldviews such as Islam, Secular Humanism, Marxism, New Spirituality, and Postmodernism. We will cover a host of hot topics in this class. Current events will also be a frequent topic of group discussion in the classroom. **This class or 20th Century Lit is required for all students graduating with CATN.***

Monthly Tuition: \$50

Materials Fee: \$50

Time: 10:30 – 11:30 am

GEOGRAPHY

Geography
MrsVermeulen.CATN@gmail.com

Instructor: Jenn Vermeulen

214-226-6021

*Open to students in the 9th – 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 belief systems and heritage of the 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, enjoy international cuisine, hear missionary stories, and discuss current events from around the world. The primary text for this class is *Cultural Geography* 4th Ed., BJU Press, with supplemental texts noted in the syllabus. It is recommended to take this course either prior to or during the study of 20th Century World History. *Minimum class size: four.**

Monthly Tuition: \$45

Materials Fee: \$40

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

MATH

PreAlgebra
MrsMoser.CATN@gmail.com

Instructor: Cindy Moser

214-557-3102

Prerequisite: None, taking placement test from Math-U-See website 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
MrsTaylor.CATN@gmail.com

Instructor: Lori Taylor

214-870-2242

Course Description: This course serves as a transition between Pre-Algebra and Algebra as students solidify prealgebra skills while learning to solve math problems algebraically and learn the elementary concepts of algebra. This is also applied to an introduction to geometry and discrete mathematics. Approximately sixty percent of the lessons in the curriculum are covered in the 1st semester. The 2nd semester focuses on an introduction to Algebra which includes polynomials and linear graphs covered as additional topics in the course. Other topics include fractions, decimals, order of operations, exponents, roots, ratios, proportions, probability, unit conversions, Pythagorean Theorem, area, volume, and more. Saxon utilizes an incremental approach to math which introduces new concepts in small steps while reviewing previously learned material. Additional online sessions and help sessions are scheduled as needed.

Text: *Saxon Algebra 1/2, 3rd edition*, Students should purchase the textbook and the solutions manual.

Monthly Tuition: \$50

Materials Fee: \$20

Time: 9:30 – 10:30 am

Open to students in the 10th – 12th grades. Some students experience challenges mastering critical mathematical concepts that are essential to success with higher level mathematics. This course is intended to review and reinforce key mathematical skills so that students can successfully pursue higher-level STEM-related classes. Specifically, students will review subjects such as arithmetic calculation, measurements, geometry, fractions, ratios, probability, and statistics. Moreover, students will 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, will be reviewed. Finally, students will 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. We will have two assigned textbooks for the class: (1) *Saxon Math Homeschool 8/7, 3rd Edition* (students should purchase both the textbook and the solutions manual); and (2) *Kaplan SAT Test Preparation 7th Edition*.

Monthly Tuition: TBD

Time: TBD

Algebra 1

Instructor: Lori Taylor

214-870-2242

MrsTaylor.CATN@gmail.com

Prerequisite: Completion of a Pre-Algebra course with a grade of 'B' or better.

Course description: This course covers the topics traditionally covered in a first-year algebra course providing a firm foundation for higher level math courses. The goal of the curriculum is not only to learn the mathematics but to help students "build higher-order thinking skills, real-world application skills, reasoning, and an understanding of interconnecting math strands." 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. Saxon utilizes an incremental approach to math which introduces new concepts in small steps while reviewing previously learned material. A *weekly homework worksheet (of 1 page)* is added for multiple choice questions (SAT/ACT type) and unit conversions. Additional online sessions and help sessions are scheduled as needed. A graphing calculator is used in this course.

Text: Saxon Algebra 1, 4th edition (the latest edition) Students should purchase the textbook and the solutions manual.

Monthly Tuition: \$70

Materials Fee: \$20

Time: 8:00 – 9:30 am

Geometry

Instructor: Michelle Price

214-507-9549

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: \$60

Materials Fee \$15

Time: 11:30 - 1pm

Algebra 2

Instructor: Michelle Price

214-507-9549

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: \$60

Materials Fee:\$20

Time: 1:30 - 3pm

Pre-Calculus
MrMotter.CATN@gmail.com

Instructor: Jon Motter

972-897-9490

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. A graphing calculator (TI-84 or higher) is required as part of the course. *Saxon Advanced Math, 2nd 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: \$20

Time: 1:30 – 3:00pm

Calculus
MrMotter.CATN@gmail.com

Instructor: Jon Motter

972-897-9490

Prerequisite: Successful completion of Pre-Calculus.

Course Description: Entry to the Calculus course follows successful completion of Pre-Calculus. Its purpose is to prepare the student for college Calculus, as well as other higher level math courses. The course provides a condensed summary of key algebraic, trigonometric, and analytic geometry concepts. The main focus of the class is the exploration of limits, functions, differentiation, and integration. Theoretical concepts are applied to physical situations regarding area and volume. A graphing calculator (TI-84 or higher) is required as part of the course. *Saxon Calculus, 2nd 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: \$20

Time: 11:30 – 1:00pm

SCIENCE

Using Apologia Science Curriculum, the following science classes are offered:

General Science
MrsMoser.CATN@gmail.com

Instructor: Cindy Moser

214-557-3102

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 *Exploring Creation with General Science*, 3rd Edition by Sherri Seligson, released in Spring 2019.

Monthly Tuition: \$40

Materials Fee: \$15

Time: 10:30 – 11:30 am

Physical Science
MrsMoser.CATN@gmail.com

Instructor: Cindy Moser

214-557-3102

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 four modules of chemistry, six modules of physics, modules on Earth science, a module on chemistry and physics in the life sciences, and the final module on physical science research.

Text: Apologia *Exploring Creation with Physical Science* 3rd edition by Vicki Dincher, released in Spring 2020

Monthly Tuition: \$40

Materials Fee: \$15

Time 11:30 – 12:30 pm

Biology
MrsThorne.CATN@gmail.com

Instructor: Stacy Thorne

214-755-4993

Open to students in the 9th-11th grades. The focus of this class is to foster the exploration of God's creation. As we study the five major kingdoms, cell structure and function, cellular respiration, photosynthesis, DNA, reproduction, genetics, evolution, and ecology, we simultaneously practice hands-on lab learning through microscopic studies, creative experiments, and specimen dissection. This allows for discussion and real-life application of the topics and their importance to our living world. Major concepts are introduced early and continually applied throughout the course. This allows a deep-rooted understanding of living organisms and biological processes as we recognize the work of God as Creator.

Module work is submitted online so students receive immediate responses and can check their comprehension. Additional study sessions are available online prior to each test to ensure student confidence.

Text: Apologia Exploring Creation with Biology, 3rd Edition

Monthly Tuition: \$70

Materials Fee: \$40 Dissection Kit \$10 (you may provide your own)

Time: 11:30 – 1 pm or 1:30 – 3 pm

Chemistry

Instructor: Lori Taylor

214-870-2242

MrsTaylor.CATN@gmail.com

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

Course Description: With an atoms first approach, students receive a thorough introduction to the study of matter and changes in matter. Experiments are integrated with the topics to give the student hands-on experience to conceptualize the concepts. The math work involved is also applied in the experiments to provide quantitative understanding and reasoning. All the experiments in the curriculum are completed with additional labs and demos. Topics include the atomic structure, molecular structure, chemical reactions, acid and base reactions, gas laws, thermodynamics, kinetics, equilibrium, redox reactions, and more. All lab equipment and materials for this course are included in the monthly tuition. Additional online study/help sessions are available as needed.

Text: Apologia Exploring Creation with Chemistry, 3rd Edition, 2nd or later printing, Plourde and Hughes

Monthly Tuition: \$70

Materials Fee: \$40

Time: 11:30 – 1 pm or 1:30 – 3 pm

Human Anatomy and Physiology

Instructor: Stacy Thorne

214-755-4993

MrsThorne.CATN@gmail.com

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.

Monthly Tuition: \$70 Materials Fee: Varies from \$60 - \$85 (See instructor for fee chart.)

Time: 8 – 9:30am

Physics

Instructor: Lundy Taylor

214-870-2293

MrTaylor.CATN@gmail.com

Prerequisite: This college-prep physics course is designed for the student who has completed Algebra 1 and Geometry – Open to students in the 10th -12th grades.

We make Physics fun! This course covers aspects of motion, free fall, Newton's Laws, work and energy, momentum, periodic motion, geometric optics, electrical potential, and more. This course is balanced between concepts and calculations - it is not just a mathematical course. All experiments are performed in class - bringing each of the concepts to life!

Textbook and the Equipment to perform all experiments are included in the monthly tuition.

Monthly Tuition: \$70

Materials Fee: \$50

Time: 8 – 9:30 am

Honors Chemistry

Instructor: Rick Moser

214-557-2364

MrMoser.CATN@gmail.com

For students in 11th/12th grade who have already completed chemistry, and who have completed or are concurrently enrolled in Algebra II (logarithms and algebraic solutions). This is a 2nd chemistry course which builds on material already learned, but at a more thorough and mathematical level, and will be on par with a college chemistry class. Topics covered include stoichiometry, bonding, periodic table trends, quantum theory, intermolecular forces, thermodynamics, redox reactions and electrochemistry, chemical equilibria, and acid/base chemistry.

Monthly Tuition: \$60

Materials Fee TBD

Time: 8 – 9:30am

ROBOTICS

Kids Can Code

Instructor: Lundy Taylor

214-870-2293

MrTaylor.CATN@gmail.com

Note, that this course requires the student to have a laptop for class as well as access to a computer at home. Open to students in grades 9 – 12. This is an introduction to programming. The year begins by learning Scratch from MIT. A graphical based language that is in the public domain. We'll cover the basics

like program control and looping structures. We also consider data structures like lists, arrays, and dictionaries. During the course the students will write animations manipulating a 'sprite'. We'll migrate those ideas to Python and C++. In the later half of the course will apply what we have learned to programming robots developed MakeMedia such as mBot Neo, mBot Ranger and so on. Work is project based and upon completion of a project students will provide an oral and technical presentation to the class. Some familiarity with PowerPoint would be helpful but not essential. Class is interactive and students are encouraged to share ideas of implementation and code examples. If you can explain it to a peer then you understand it. Note, debugging can be time consuming and frustrating. This class can be a test of a student's patience and persistence.

Monthly Tuition: \$70

Materials Fee \$75

Time: 1:30 – 3:00 pm