

GATHER & GROW



A Christian Homeschool Cooperative

Class Catalog

Updated 5/06/2024

Ceramics

Grades: 2-12

Price: \$185

Description: ALL NEW CLAY HAND-BUILDING PROJECTS!

In our ceramics class, we will use the three forms of clay hand-building to create sculptural and functional pieces. We will build with various low-fire clays to create seasonal works of art and learn about the drying and firing process. All finished pieces will be kiln-fired and painted or glazed.

Payment Details: \$50 first month; \$67.50 second and third months / \$185 per semester (ALL supplies include) Payment: Pay through our registration site \$50 non-refundable deposit due Jan. 31. You will receive an email and a link to register and pay the deposit through our website.

Pay the remainder in full or pay monthly.

Accepts Charters: No, but we are happy to sign reimbursement forms for Classical or Coastal Academy 😊

Questions: Please email Kristin McCrary at abfinearts@mac.com.

Chess4Kidz

Grades: 3-12

Price: \$200

Description: “Henry Doktorski teaches chess with humor and patience, showcasing it not only as an expression of logical thinking, but also of good sportsmanship.”—Franklin Chen, U. S. National Master and Pittsburgh Chess Club Champion

Benjamin Franklin noted, “The game of chess is not merely an idle amusement. Several very valuable qualities of the mind, useful in the course of human life, are to be acquired or strengthened by it.”—On the Morals of Chess (1779)

Mr. Doktorski's Chess4Kidz classes are educational and entertaining and consist of classroom lessons and actual games between students. Skills taught range from basic checkmates to rudimentary tactics and strategies such as pins, forks, skewer attacks, opening traps, opening theory, pawn structure, etc. Students examine memorable and instructive games of famous grandmasters. During tournament games students are paired against opponents of similar

strength. Mental discipline and good sportsmanship are encouraged. All chess supplies are provided.

Chess4Kidz classes can provide the following benefits to its participants:

- helps develop mental concentration, self-discipline, and patience,
- encourages students to think before acting, to examine and accept the consequences of one's actions,
- teaches thinking on one's feet,
- helps develop good sportsmanship and moral character.

For more, see <http://henrydoktorski.com/chess.html>

Payment Details: Cash, Checks, Venmo and PayPal

Accepts Charters: PCA and MVA accepted

Questions: Please email Henry Doktorski at henrydoktorski@gmail.com.

Cocina Marin

Grades: 1-8

Price: \$200

Description: We will be preparing traditional Mexican dishes including tortillas, albondiga soup, salsa, churros and aguas frescas and more. Each child will be sent home with a sample of their creation. All food and utensils will be provided. Children will learn Spanish words pertaining to the lesson and receive the recipe in a weekly email.

Payment Details: Pay cash, check, Venmo, Zelle

Accepts Charters: Currently not accepting charters

Questions: Please email Silvia Marin at sgamez25@yahoo.com.

Electricity and Electronics

Grades: 7-12

Price: \$200

Description: *And God said, "Let there be light," and there was light.*
– Genesis 1:3 (ESV)

*By faith we understand that the universe was created by the word of God,
so that what is seen was not made out of things that are visible.*

– Hebrews 11:3 (ESV)

*As the heavens are higher than the earth, so are my ways higher than your ways
and my thoughts than your thoughts.*

– Isaiah 55:9 (ESV)

I want to know God's thoughts—the rest are mere details.

– Albert Einstein

If you take apart a modern device and look inside, you'll see that there are a bunch of weird looking electrical doodads and gizmos in there. How do they work? How do the strange components inside a radio, TV, or phone, for example, make it possible for us to see or hear people a hundred miles away?

When we cook food or boil water in a microwave oven, the inside walls don't get very hot to the touch, so how does a microwave oven make the water boil? Where does the heat come from?

How do magnets work? How can they exert forces on objects over a distance, even in a vacuum?

If you think about it, it's actually amazing that we can make light simply by flicking a switch on a wall. How does electricity create light?

Radio signals, light, and microwaves are all electromagnetic waves, but these waves are quite unlike any other kinds of waves: Water waves undulate on the surface of the ocean; seismic waves travel through the earth; sound waves are traveling compressions in the air; a drum or guitar string vibrates with mechanical waves. All these kinds of waves propagate as disturbances in an underlying medium. But what exactly is oscillating or vibrating or "waving" when electromagnetic waves move through a vacuum, such as starlight traveling through the vast emptiness of outer space?

And why do light waves move so fast? Did you know the speed of light, called "c", is so special that NOTHING can move faster than it? And that all clocks will slow down if they accelerate fast enough to approach the speed of light? How is it possible that time itself could slow down? Like the empty space of a vacuum, time must be different than one might initially think.

In this class we will consider all these questions as we provide a basic introduction to the physics of electromagnetism. We will describe the electrical nature of the constituents of matter and discuss the bizarre and surprising fundamental laws that govern their behavior, motion and interactions in spacetime. We will confirm our understanding by doing some simple experiments and apply our knowledge by building some electronic circuits.

We will discuss the permittivity and permeability of free space, and how together they determine the speed of light, c . We will discuss why c appears in Einstein's famous equation $E=mc^2$. We will cover cathode rays, electric charge, electrostatic potential, direct and alternating currents, monopoles vs. dipoles, and the polarization and magnetization of materials.

In the electronics portion of the class we will explore the circuit laws, conductors, resistors, capacitors, inductors, batteries, transformers, and the basics of semiconductor devices like solar panels, light-emitting diodes, transistors, logic gates, and integrated circuits.

The class will be gauged for middle and high schoolers (11-18 year olds). The emphasis will be on basic scientific concepts and principles rather than detailed mathematics, and the level of the material will be adjusted according to the background and skill level of the students who enroll.

There may be up to 2-3 hours of homework per week.

Prerequisites: Students should possess a good understanding of the arithmetic of fractions and decimals, familiarity with graphical plots of coordinates and data, a basic understanding of variables and equations, and a strong curiosity about science.

The class fee is \$200, which includes all lab materials. (Please contact me if a student wants to take the class, but the lab fee is too high.)

Contact: gatherandgrow@robertmalone.com

Ages/Grades: Middle and high schoolers (11-18 year olds). Please contact me if you would like to discuss whether this class would be an appropriate match for a particular student.

Payment Details: \$200, which includes all lab materials. (Please contact me if a student wants to take the class, but the lab fee is too high.)

Accepts Charters: No, but I can sign reimbursement forms.

Questions: Please email Robert Malone at gatherandgrow@robertmalone.com.

Exploring Creation: A Hands-On Science Experience

Grades: 4-11

Price: \$150

Description: Embark on a fascinating journey through the marvels of God's creation with our hands-on science class. Designed to nurture curiosity and enhance understanding, this course offers a structured exploration into the wonders of the natural world, aligning with an experiment-based lesson plan that spans eleven weeks.

Our class schedule is planned to ignite a passion for scientific inquiry and strengthen faith through the study of diverse scientific disciplines. Students will dive into topics ranging from the foundational principles of the scientific method to the intricate systems of marine life.

Here's an overview of our weekly experiment-focused modules:

- **Experimental Results (Week 1):** Begin with the end in mind. By examining experimental results, students develop an appreciation for evidence-based conclusions, setting the stage for understanding the scientific process.
- **Scientific Method (Week 2):** Delve into the backbone of scientific inquiry, learning to formulate hypotheses, conduct experiments, and draw conclusions.
- **Scientific Analysis (Week 3):** Develop analytical skills crucial for evaluating data and experiments with a focus on objectivity and accuracy.
- **Astronomy (Week 4):** Gaze at the heavens as we study celestial bodies, learning about God's handiwork in the vast universe.
- **Meteorology and Oceanography (Weeks 5-6):** Explore Earth's atmosphere and oceans, appreciating the complexity of weather patterns and marine ecosystems.
- **Life Science (Weeks 7-8):** Delve into the miracle of life, from the smallest cells to the complexity of organisms that inhabit our planet.
- **General Biology (Week 9):** Examine the fundamentals of life science, understanding the building blocks of living things and their environments.
- **Marine Science (Weeks 10-11):** Conclude the journey with an in-depth look at marine environments, fostering stewardship for the oceans and their inhabitants.

This class not only equips students with scientific knowledge and a reverence for creation but also integrates critical thinking with a faith-based approach to learning. Through this blend of science and spirituality, students will grow in both wisdom and appreciation for the intricacy of God's world. Join us as we uncover the mysteries of creation, one experiment at a time!

Based on Book: Exploring Creation with General Science 3rd Edition, Apologia

Student is free to follow along in the book, but the book is not necessary for the class.

Payment Details: \$100

Accepts Charters: I do not accept charter funds and cannot sign reimbursements because of the religious content of this class.

Questions: Please email Sean McCrary at mccrarys@gmail.com.

Exploring Mathematics with Computer Programming

Grades: 8-12

Price: \$100

Description: *Mathematics is the language in which God has written the universe.*
-- Galileo Galilei

In this class students will explore selected mathematical topics using some popular computer software packages as well as programs the students write themselves.

Each student will be issued an older refurbished laptop loaded with powerful mathematical tools and programming languages on which they will develop simple computer programs to investigate mathematical questions and solve assigned homework problems.

The introductory portion of the class will focus on how to make use of the GNU/Linux computer operating system that the laptops run (which is also the most ubiquitous server operating system in the world). After that, we will turn to mathematical topics. We will learn elements of computer science, programming techniques, software tools, and mathematical methods that will all be applied to the student homework problems. We hope eventually to get to some fascinating topics of higher math that can be made accessible to younger students using a computational and graphical approach (rather than analytic methods).

The primary purpose of the homework is to build up students' mathematical intuition and problem-solving skills. The projects will grow in sophistication as the course progresses.

INSTRUCTOR'S IMPORTANT NOTE:

This will be a rigorous class. Due to the limited amount of in-class time available, much of the learning necessarily will be done by students working on assignments using the laptops at home. Therefore, students should have self-study skills and a degree of maturity and perseverance.

As STEM concepts are built up layer-by-layer, it is important that students attend every class, if at all possible, and do their very best to complete the assigned work so they do not fall behind.

There may be up to three hours of homework each week.

Prerequisites: Students should possess a good understanding of the arithmetic of fractions and decimals, familiarity with graphical plots of coordinates and data, a basic understanding of variables and equations, and a strong curiosity about mathematics.

Suggested Age: 12-18, but I will adjust the class topics depending on the mathematical background, academic level, and previous computer experience of the students who enroll. Please contact me if you would like to discuss whether this class would be an appropriate match for a particular student.

Payment Details: \$100 but please contact me if this is an issue.

Accepts Charters: No, but I can sign reimbursement forms.

Questions: Please email Robert Malone at gatherandgrow@robertmalone.com.

IEW: Ancient History

Grades: 3-9

Price: \$150

Description: Experience the adventures of the ancient world! This theme-based writing curriculum exposes students to the ancient world through cultural literature and the study of famous places and events while they learn to write with the Structure and Style® writing method.

Each week students will work travel through the IEW curriculum as a class, working through each lesson and structuring their outlines. They will learn and be encouraged to memorize the eight parts of speech, four verb types, coordinating conjunctions, and prepositions. The students will begin their writing piece in class, completing any unfinished writing at home. All returned pieces will be peer reviewed based on the grading rubric provided in the student handbooks. Every other week the students will be encouraged to present a writing piece of their choice to the class.

Students will need their own copy of Ancient History-Based Writing Lessons student edition. Students using alternative IEW curriculum are welcome to join, they will benefit from the classroom feedback and opportunities to present their work to peers.

Payment Details: \$150 via PayPal @JesWelemirov; Venmo@Jes-Welemirov ; Check: Jessica Welemirov ; Cash

Accepts Charters: Charter: I do not accept charter school payments but I'm happy to sign reimbursement forms.

Questions: Please email Jes Welemirov at just_jes82@live.com.

Introduction to Ballet and Jazz

Grades: K-6

Price: \$150

Description: Introduction to Ballet and Jazz will be an exciting and engaging class where students will be introduced to ballet and jazz techniques. Emphasis will be placed on dance as a form of worship to our Lord. All music and movement taught in class will edify the students and bring glory to God.

Payment Details: \$100 Check or Venmo

Accepts Charters: Charter: I do not accept charter school payments but I'm happy to sign reimbursement forms.

Questions: Please email Rosalyn Hulin at rachelhulin@yahoo.com.

Intro to Spanish for Beginners

Grades: K-6

Price: \$150

Description: TBD

Payment Details: \$150

Accepts Charters: Charter: I do not accept charter school payments but I'm happy to sign reimbursement forms.

Questions: Please email Lisa Kopitzke at lmkopitzke@yahoo.com.

Math Games!

Grades: 1-5

Price: \$165

Description: Math Games is all about learning fluency in math while having fun! The class will feature:

- Skip counting to music with high impact body movements
- Math Story Time "I Love Math" series
- Fast Fact sheets

- Engaging Math Games, such as Uno, Dose, Sumology, BAMbingo, Chinese Checkers, Monopoly, and more!

Payment Details: PayPal @JesWelemirov; Venmo@Jes-Welemirov ; Check: Jessica Welemirov ; Cash

Accepts Charters: Charter: I do not accept charter school payments but I'm happy to sign reimbursement forms.

Questions: Please email Jes Welemirov at just_jes82@live.com.

Mixed Media Visual Art: World of Color

Grades: K-6, 5-12

Price: \$165

Description: Embark on a vibrant journey through the “World of Color,” an immersive art class that takes you on an unparalleled artistic voyage across the globe. This course is designed to unlock the doors of creativity, allowing students to explore the rich tapestry of cultures, breathtaking landscapes, and the diverse wildlife that our world has to offer, all through the lens of art. With a focus on building and enhancing drawing and painting skills, this class intertwines the foundational elements of art and principles of design with a global perspective and a Christian worldview.

Join us as we traverse continents and oceans, exploring the world through art. Let the “World of Color” be your canvas, where every brushstroke tells a story and every color holds a world of possibilities. Register now and add a new dimension to your artistic journey!

Payment Details: \$50 per month / \$150 per semester (ALL supplies include) Payment: Pay through our registration site \$50 non-refundable deposit due Feb. 1. You will receive an email and a link to register and pay the deposit through our website.

Pay the remainder in full or pay monthly \$50 per month March 1st and April 1st.

Accepts Charters: No, but we are happy to sign reimbursement forms for Classical or Coastal Academy 😊

Questions: Please email Kristin McCrary at abfinearts@mac.com.

Multi Sport Skills & Jr/Sr High PE

Grades: K-6, 5-12

Price: \$175

Description: We'll be coaching the fundamentals of soccer, tennis, golf, baseball, basketball and track n' field in this exciting all around sports class. Our coaching is STEAM infused and we'll finish most of our classes with group games where kids get to put into practice what they've learned in the class.

Payment Details: You're able to pay online at SportsSaints.org or submit enrichment certificates through any one of our homeschool partners.

Accepts Charters: Active vendors with: Pacific Coast Academy, Mission Vista Academy, Cabrillo Point Academy, Sage Oak & Dimensions

Questions: Please email Coach Ryan at Ryan@SportsSaints.org.

Music Theory & Choir

Grades: K-3, 3-6

Price: \$150

Description: In this class we will learn basic music theory: rhythm, note reading, and ear training, through group activities, worksheets, and games! We will also learn solfège and basic choral techniques, and work on several choir pieces together.

Payment Details: Vendor with PCA, accepts payments through Venmo, cash, or check.

Accepts Charters: Active vendor with Pacific Coast Academy and can sign reimbursement forms.

Questions: Please email Sarah Lowery at matt.93738@gmail.com.

Songwriting

Grades: 7-12

Price: \$150

Description: Join our Songwriting Class for kids aged 7-12 at Gather and Grow Cooperative, where they'll embark on a musical journey. In this nurturing environment, your child will learn the art of crafting songs while embracing Christian values. From crafting meaningful lyrics to composing catchy melodies, each child will explore their creative potential in a faith-centered setting. Let's inspire young hearts to express themselves through the power of music.

Payment Details: Venmo @Joe-Henschel-22

Cash

Check

Accepts Charters: No, but we are happy to sign reimbursement forms for Classical or Coastal Academy.

Questions: Please email Joseph Henschel at joehenschel@me.com.

Worship Leading

Grades: 7-12

Price: \$150

Description: Leading worship with guitar or piano, vocal melody and harmony, putting together a set list, working with a team, using technology, basic music theory, glorifying God with our gifts!

(Will not include instruction on electric guitar, bass, or drums, however, if your student already plays, we will put it to good use). This class does not provide instruction on learning a new instrument. Note: Personal instrument highly encouraged but not required.

Payment Details: Venmo @Joe-Henschel-22

Cash

Check

Accepts Charters: No, but we are happy to sign reimbursement forms for Classical or Coastal Academy.

Questions: Please email Joseph Henschel at joehenschel@me.com.