



## 2024 – 2025 COURSE DESCRIPTIONS GRACE HOMESCHOOL CONNECTION

### ART

#### **Art - Elementary**

**(Grades 1 – 3)**

This lower elementary level art class emphasizes the fundamental principles of art through painting, collage, drawing, and sculpture. Students will gain skill in art by looking at great works of art, discussing the elements found in those works, and imitating the techniques.

Instructor: Hayley Morris

Materials Fee: \$25

1 Hour/32 Weeks

#### **Art Principles**

**(Grades 4 – 6)**

This upper elementary level course emphasizes the fundamental art principles of color, value, texture, shape, line, and form through painting, drawing, and collage. Students will gain skill in art by looking at great works of art, discussing the elements found in those works, and imitating the techniques.

Instructor: Hayley Morris

Materials Fee: \$25

1 Hour/32 Weeks

#### **Art – High School**

**(Grades 7 – 12)**

This upper level art class strengthens art skills and techniques and challenges students to pursue greatness in art through drawing and painting. Students will gain skill in art by looking at great works of art, discussing the elements found in those works, and imitating the techniques.

Instructor: Hayley Morris

Materials Fee: \$25

1 Hour/32 Weeks

## CLASSICAL MEMORY

### **Classical Memory**

**(Grades 1 – 3)**

“Set the seal to the wax while it’s hot.” Laying a solid foundation for future learning, this Classical Memory class provides the opportunity for students to thrive in memorization while learning about the world around them. Students will pursue six categories of memorization: history, science, grammar, math, Bible, and Latin. Throughout the course of the year, students will learn 160 points on the history timeline, key figures and concepts in science, all the parts of speech, skip counting from 1 – 15 (to support foundational math studies), select Bible passages, and basic Latin terms and paradigms. This course will tap little “pegs” into the mind upon which future academic studies will expand. Students will work together in this fun foundational class to make many “memories.”

**Optional** (The typed history timeline is provided in the memory work binder, however, the following optional cards illustrate each point on the timeline):

Veritas Press History Cards (all 5 sets at [www.veritaspres.com](http://www.veritaspres.com))

- Old Testament and Ancient Egypt – 978-1930710009
- New Testament, Greece and Rome – 978-1930710016
- Middle Ages, Renaissance and Reformation – 978-1930710023
- Explorers to 1815 – 978-1930710030
- 1815 to Present – 978-1930710047

Instructor: Joann Williams

Materials Fee: \$20 (for the memory work binder)

1½ hour/32 weeks

## HISTORY

### **Mapping the World - Overview of the Continents**

**(Grades 4 – 8)**

Helping your child learn about a country is not just about learning the name of a far-off place, but also understanding that the location is a crucial component of geography. Through mapping, your child will gain knowledge of geographical terms while they learn to draw detailed maps of important locations and landforms. While learning about the cultural significance of countries around the world, this class aims to ignite an appreciation and an excitement for all the places God has created.

We will provide all students with a 3 inch 3 ring binder and divider tabs on the first day of class. These costs are included in the class material fees. You will still need to purchase the text below.

**Text:** *Student World Atlas (9<sup>th</sup> Edition), Ultimate Reference for Every Student* - 978-1465474025

Instructor: Pam Scott

Materials Fee: \$40

1 hour/32 Weeks

## HISTORY (Continued)

### Elementary History

(Grades 4-7)

#### **Greeks and Romans**

Using engaging narratives, hands-on activities, memorization, and projects, students will study Greek and Roman history. This year's study is part of a rotating four-year elementary program built to develop a thorough understanding of history while fostering a biblical worldview. Capturing the pertinent stage of the early learner and the natural desire for exploration, this course will make history come alive through class time activities and weekly at-home reading and narrating assignments.

#### **Texts and ISBNs:**

##### **Textbooks:**

- *The Story of the Greeks*, Christine Miller, Available only at Nothing New Press
- *The Story of the Romans*, HA Guerber, Available only at Nothing New Press

##### **Veritas Press' Memory Cards (Optional):**

- *Veritas Press History Cards – New Testament, Greece and Rome* – 978-1930710009

Instructor: Carrie Johnson

Materials Fee: \$30

1½ hour/32 Weeks

### Middle School History -

#### **Creation to Cathedrals**

(Grades 7 - 8)

This rigorous course walks students through history to provide a big-picture understanding and appreciation of the world from Creation to Cathedrals. Through class discussions, projects, literature, and weekly assignments, students will develop a rich understanding of important world events while fostering a biblical worldview. Emphasizing the logic stage of the *trivium*, students will connect facts and explore significant relationships among historical events. This course is part one of a two part cycle.

#### **Texts:**

- *From Adam to Us Part 1: Creation to Cathedrals* by Ray and Charlene Notgrass – 978-1609990848
- *From Adam to Us Lesson Review* by Mary Evelyn McCurdy – 978-1609990916
- *From Adam to Us Timeline* by John Notgrass – 978-1609990886
- *From Adam to Us Map Book* by Nate McCurdy and Bethany Poore – 978-1609990879
- *Our Creative World Stories, Poems, Documents, Art and Architecture from World History* edited by John Notgrass – 978-1609990862
- *Mara, Daughter of the Nile*, Eloise Jarvis McGraw - 978-0140319293
- *The King's Shadow*, Elizabeth Alder - 978-0440220114
- *Son of Charlemagne* by Barbara Willard – 978-1883937300

Instructor: Joann Williams

1½ hours/32 weeks

## HISTORY (Continued)

### **Government**

**(Grades 10 – 12)**

This course gives students a basic knowledge of the United States government as established by the Constitution. Examining the making of our Constitution, and the challenges of its ratification, students will understand the historical backdrop in which our country began. Learning the constitutional principles, such as, popular sovereignty, federalism, rule of law, checks and balances, separation of powers and limited government, students will investigate how our government functions. An understanding of the Bill of Rights as well as landmark court cases will be studied, so students have real world examples of our government in action, and in turn, apply it to the world they live in today. Students will read the Constitution in its entirety in this class.

#### **Texts:**

- *Exploring Government* by Ray Notgrass – 978-1609991784
- *We Hold These Truths* by Ray Notgrass and John Notgrass – 978-1609991012
- *Exploring Government Student Review Book* – 978-1609991043

Instructor: TBA

1 ½ hour/16 weeks/**Fall** Semester

### **Economics**

**(Grades 10 – 12)**

This course “takes the mystery out of economics” and teaches students everything they ever wanted to know about money, the market, prices, monopoly, competition, land, labor, capital, entrepreneurs, and the distribution of wealth. Throughout the course of the semester, students will acquire an understanding of basic economic principles as they read and discuss these facets of economics: the framework of economics, the production and distribution of goods, and politico-economic systems. This class prepares students to function economically in our modern society as well as to progress to further economic studies at the college level.

#### **Texts:**

- *Exploring Economics* by Ray Notgrass - 978-1609990947
- *Exploring Economics Student Review Book* by Notgrass – 978-1609991050
- *Whatever Happened to Penny Candy (7<sup>th</sup> Edition)*, Richard J. Maybury – 978-0942617641
- *A Bluestocking Guide – Economics* - Jane A. Williams – 978-0942617658

Instructor: TBA

1 ½ hour/16 weeks/**Spring** Semester

## LANGUAGE ARTS

### **Speech & Logic**

**(Grades 6 - 12)**

Three things dictate our daily lives: our ability to think, our ability to make decisions, and our ability to draw conclusions with the information given to us. Have you ever heard or read something that did not sound right, but you could not put your finger on it as to why? Or perhaps you have wanted to stand up for something you believe in, but did not because you felt like you did not have the ability, or the skill set to do so? This course seeks to train the minds of the students “to recognize wrong thinking” and become critical thinkers. To do this, students will be taught 28 fallacies, analyze great speeches, learn persuasive techniques, and present well-written speeches.

#### **Text**

- *The Art of Argument: An Introduction to the Informal Fallacies*, (revised student edition) by Joelle Hodge, Christopher Perrin, and Aaron Larsen - 978-1600514500

Instructor: Elisa Steele

1½ hours/32 weeks

### **Debate**

**(Grades 8-12)**

The exchanging of ideas and beliefs is something every person will have to do in life and that is why it is so vital to understand how to do this effectively. This class will equip students with the confidence to debate and to share their beliefs or opinions in a logical and respectful way. It teaches the benefit of debating, disagreeing, and discussing in informal and formal settings. Students will employ the techniques of logic and rhetoric, such as the common topics of definition, comparison, relationship, circumstance, and testimony. Additional study of ethos, pathos, and style is also included as well as a study of debate arrangement.

#### **Text**

- *Everyday Debate and Discussion*, by Shelly Johnson, 978-1600512933

Instructor: Pam Scott

1½ hours/32 weeks

### **Rhetoric**

**(Grades 9-12)**

Living in a culture with unreliable and contrasting opinions, students need to be equipped to address the issues of our time. Rhetoric is an essential skill taught for this purpose. Students will learn to mount a persuasive defense as they step through the essential components of persuasion—the three appeals, the three types of speech, and the five canons. While analyzing and discussing classic texts and speeches such as, Pericles’s “Funeral Oration” and Martin Luther King, Jr’s, “Letter from Birmingham Jail”, students will learn to respond and defend their ideas. Having the opportunity to practice and develop their own rhetorical skills through weekly activities, imitation, and presentations, students will be equipped for success inside and outside of the classroom.

#### **Text**

- *Rhetoric Alive! Book 1 Principles of Persuasion* by Alyssa Barnes – 978-1600513008

Instructor: TBA

1½ hours/32 weeks

## LANGUAGE ARTS (continued)

### **Writing I**

**(Grades 4 – 6)**

This class utilizes a classical approach to writing for all levels of beginners; enthusiastic to reluctant to terrified. By the end of the year, your student will be able to write a five-paragraph essay packed full of strong verbs, quality adjectives and other elements that enhance writing. While focusing upon such topics as note-making, outlining, summarizing, narrating, and creative writing, students will learn how to add these stylistic and structural techniques and grow in their abilities as a writer. Vocabulary words are included in this curriculum as well as weekly grammar lessons.

#### **Texts:**

- *Tales, Triumphs and Treasures – Book 1* (GHC Provides)
- *Grace Homeschool Grammar* (GHC Provides)

Instructor: Madeline Miller

Material Fees: \$55 (This covers grammar and writing texts)

1½ hour/32 weeks

### **Writing II**

**(Grades 6 – 8)**

This class utilizes a classical approach to writing that stresses imitating great writing and builds a firm foundation of critical thinking and study skills. While focusing upon such topics as note-making, outlining, summarizing, narrating, creative writing and five paragraph essays, students will learn how to add style and structure to their writing. Vocabulary words are included in this curriculum as well as weekly grammar lessons.

#### **Texts:**

- *Modern World History-Based Writing Lessons*, 2nd edition - 978-1623413316
- *Grace Homeschool Grammar* (GHC Provides)

Instructor: Madeline Miller or Lori Hackbart

Material Fees: \$25 (This covers grammar text)

1½ hours/32 weeks

## LANGUAGE ARTS (continued)

### Writing III

(Grades 7 – 12)

#### **Prerequisite: Writing II or admission by Director review**

This advanced set of writing lessons moves quickly into sophisticated research, documentation, note-taking from lectures, advanced essays (basic, persuasive, and super), critiques of literature, and thesis papers. Appropriate for grades 7-12, the writing assignments include topics such as early America, the American Revolution, the Civil War, inventions, WWI, the Great Depression, WWII, and more. Students will also have the opportunity to write a literary analysis on Harper Lee's *To Kill a Mockingbird*. Vocabulary words are included in this curriculum as well as weekly grammar lessons.

#### **Text:**

- *Advanced US History-Based Writing Lessons, Published 2015 - 978-1-62341-2326*
- *To Kill a Mockingbird*. Harper Lee. - 978-0060935467
- *Grace Homeschool Grammar* (GHC Provides)

Instructor: Madeline Miller

Material Fees: \$25 (This covers grammar text)

1½ hours/32 weeks

## LITERATURE

Note: The ISBNs below are the copy the teacher will be using. These are suggested, however, you may use other full versions of the same classics. Also, library loans are allowed if available during the weeks of course use for Lit I and Lit II, however annotation in the books is required in Lit III, so Lit III books must be owned.

### Literature I

(Grades 4 – 6)

This course is an elementary level introduction to the classics focusing upon the elements of great literature and teaching the skills necessary to appreciate and analyze great works. During the year, students will be reading and analyzing eight classic stories as well as learn the five elements of fiction and literary devices, such as metaphor, irony, and juxtaposition that enrich our reading.

#### **Books:**

- *The Secret Garden* by Francis Hodgson Burnett - 978-0141321066
- *Bambi* by Felix Salten - 978-1442467453
- *Stuart Little* by E.B. White - 978-0064400565
- *Amos Fortune, Free Man* by Elizabeth Yates - 978-0140341584
- *The Sign of the Beaver* by Elizabeth George Spear - 978-0547577111
- *Strawberry Girl* by Lois Lenski - 978-0064405850
- *Black Beauty* by Anna Sewell - 978-0141321035
- *Mr. Popper's Penguins* by Richard Atwater - 978-0316058438

Instructor: Madeline Miller

1 hour/32 weeks

## LITERATURE (continued)

### Literature II

(Grades 6 – 8)

This course continues the study of great classic literature by implementing a Socratic method of discussion. Students will be taught to analyze characters and themes and relate them to the world today as well as understand the elements that authors use to write a great work of literature. This class will enhance your student's perspective about God's world and his absolute truth.

#### **Books:**

- *The Jungle Book* by Rudyard Kipling - 978-0141325293
- *Poetry and Short Stories: American Literature Student Guide*, David M. Wright, 978-1615383634 and *Poetry and Short Stories: American Literature Anthology* – 978-1615383689 (Note – students can print poems from the internet instead of buying the anthology)
- *The Princess and the Goblin* by George McDonald - 978-0141332482
- *The Trojan War* by Olivia Coolidge – 978-0618154289
- *White Fang* by Jack London (Puffin Classics) - 978-0141321110
- *No Fear Shakespeare, Much Ado About Nothing*, by William Shakespeare - 978-1411401013
- *The Adventures of Tom Sawyer* by Mark Twain – 978-0141321103
- *Little Lord Fauntleroy* by Francis Hodgson Burnett 978-0141330143

Instructor: Karina Dulin

1 hour/32 weeks

\*Books subject to change at teacher's discretion

### Literature III

(Grades 7 – 12)

#### **Prerequisite: Literature II or admission by Director review**

This course continues the study of great classic literature by focusing on the Socratic method of discussion. Building on their understanding of plot, theme, and characters, students will continue to read, annotate, infer, analyze, and write about literature. Additionally, this course will build upon the student's ability to recognize an author's worldview and to exercise discernment when reading.

**Text:** *Windows to the World-An Introduction to Literary Analysis*, Lesha Myers - 978-0980100518

#### **Books:**

- *The Invisible Man*, H.G. Wells - 978-1954839427
- *Jane Eyre*, Charlotte Bronte - 978-0141441146
- *Animal Farm*, George Orwell- 978-0451526342
- *The Hound of Baskerville*, by Conan Doyle - 978-1949460513
- *To Kill a Mockingbird*, Harper Lee - 978-0060935467
- *The Scarlet Pimpernel*, Baroness Orczy - 978-0812966114
- *Murder on the Orient Express*, Agatha Christie - 978-0062689665
- *No Fear Shakespeare – Hamlet*, William Shakespeare - 978-1586638443

Instructor: Carrie Johnson

1½ hour/32 weeks

\*Books subject to change at teacher's discretion



## Humanities III

### **Humanities III – Reformation to the Present**

**(Grades 8 – 12)**

**Honors level (4 Credits)** – Reformation - Modern History, Reformation - Modern Literature, English Composition III, Theology III.

**Prerequisites:** Admission into the Humanities classes assumes completion of Writing III and Literature III, or a previous Omnibus class. Other students may be accepted based on grade level and prior coursework **if** our board deems those students will be able to handle the academic rigor and full participation that this class requires.

This course of study encompasses the disciplines of history, literature, theology, and writing by studying ancient through modern times in the light of Biblical truth. In this course students read classic books from the Reformation through modern times. As well as reading, the students develop writing skills through research papers, literary analysis, and persuasive writing. This rigorous college preparatory program aims to develop logical thinkers and effective communicators, so that students can navigate through hard topics in a respectful, loving and Christ-like way. Understanding how to express their ideas through debate, written assignments, and class discussions, students will develop clarity and conviction about topics that effect our world today.

#### **Texts:**

Holy Bible – ESV translation

#### **Primary Books:**

##### FIRST SEMESTER PRIMARY BOOKS:

- *Westminster Confession of Faith* – 978-0979377006
- *The Pilgrim’s Progress*, John Bunyan - 978-0851512594
- *The Social Contract*, Jean-Jacques Rousseau - 978-0140442014
- *The Federalist and Anti-Federalist Papers*, Ralph Ketcham, Editor - 978-0451528810 and-978-0451528841 (these are purchase optional, free copies can be found online)
- *Benjamin Franklin – The Autobiography* - 978-0451528100
- *Reflections on the Revolution in France*, Edmund Burke - 978-0140432046

##### SECOND SEMESTER PRIMARY BOOKS:

- *Autobiography of Charles G. Finney* - 978-0764201561
- *Lincoln’s Speeches*, Abraham Lincoln, - 978-1598530537
- *The Communist Manifesto*, Karl Marx and Friedrich Engels - 978-0140447576
- *Christianity and Liberalism*, J. Gresham Machen - 978-0802864994
- *How Should We Then Live?* Francis A. Schaeffer - 978-1581345360
- *Postmodern Times*, Gene Edward Veith Jr. - 978-0891077688

#### **Secondary Books**

##### FIRST SEMESTER SECONDARY BOOKS:

- *The Scarlett Letter*, Nathaniel Hawthorne – 978-1708293468
- *Pride and Prejudice*, Jane Austen - 978-0141439518
- *Frankenstein*, Mary Shelley - 978-0140367126
- *A Tale of Two Cities*, Charles Dickens - 978-014143960

##### SECOND SEMESTER SECONDARY BOOKS:

- *Uncle Tom’s Cabin*, by Harriet Beecher Stowe, - 978-0486440286
- *The Great Gatsby*, F. Scott Fitzgerald -978-0743273565
- *Animal Farm*, George Orwell - 978-0452277502
- *1984*, George Orwell - 978-0452262935
- *The Old Man and the Sea*, Ernest Hemingway - 978-0684801223
- *Death of a Salesman*, Arthur Miller - 978-0140481341

Instructor: Karina Dulin

3 hours/32 weeks

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Class availability dependent upon sufficient enrollment

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# MATHEMATICS

## **Note to Parents regarding all math courses:**

Students should expect to spend about 1 hour per day on their mathematics assignments. Prior to signing their child's assignment sheet, parents should check to see that their child completed all problems and neatly showed all of their work. Parents do not need to understand the material, but just be involved enough in the process so that they know if their child is having difficulty. Students should come to class prepared with questions on any problems they did not understand or did not get correct. Tests should be proctored and signed by the parent and completed in one sitting. Tests should also be submitted to the teacher UNGRADED. **All work must be the student's own work and not copied from an answer key, solutions manual, or another student.** Copying from any source will be considered cheating and may result in the student not receiving any credit for the assignment or test.

## **Saxon Math 7/6**

**(Grades 6 – 7)**

Using an incremental method, this *Saxon Math* curriculum teaches new concepts while keeping previous concepts current. Over time and through repeated exposure to these concepts, students gradually gain mastery in their math skills. *Math 7/6* is for average sixth graders or slower seventh graders. This text is especially good at providing a cumulative review and expansion upon topics covered through earlier grade levels. Among topics covered at this level are fractions, mixed numbers, decimals, percent, ratios, rounding, estimating, exponents, working with signed numbers, square roots, beginning algebraic expressions, surface area, volume, angles, circles, prime factorization, ratios and proportions, and statistics and probability.

**Texts:** *Saxon Math 7/6*, Fourth Edition: Homeschool Set/Box - 978-1591413332 (Set includes 3 books: *Saxon Math 7/6* Homeschool Edition Student Text, Solutions Manual, and Tests and Worksheets)

Instructor: Grace Porter  
1½ hour/32 weeks

## **Pre-Algebra (Saxon 8/7)**

**(Grades 7 – 8)**

Focusing on algebraic reasoning and geometric concepts, *Saxon Math Homeschool 8/7* teaches math with a spiral approach, which emphasizes incremental development of new material and continuous review of previously taught concepts. The textbook reviews arithmetic calculation, measurements, geometry and other skills, and introduces pre-algebra, ratios, probability and statistics. Students will specifically learn about adding/subtracting/multiplying fractions, equivalent fractions, the metric system, repeating decimals, scientific notation, Pi, graphing inequalities, multiplying algebraic terms, the Pythagorean Theorem, the slope-intercept form of linear equations, and more .

**Texts:** *Saxon Math 8/7 with Pre-Algebra*, Third Edition: Homeschool Set/Box – 978-1591413509 (Set includes 3 books: *Saxon Math 8/7* Student Text, Solutions Manual, and Tests and Worksheets)

Instructor: Grace Porter  
1½ hours/32 weeks

## MATHEMATICS (continued)

### **Algebra 1**

**(Grades 8 – 10)**

After much research, we are offering the highly rated *Algebra 1* by Paul Foerster. This is a traditional first year algebra course in which students will gain a strong foundation for future math courses. Each section includes real world applications, teaching the concepts and techniques in small steps, allowing for plenty of practice. The book is very comprehensive, very logical, and often goes deeper into the topics than some other books. Everything new is based on previously learned concepts and connections between the concepts are emphasized.

#### **Texts:**

- *Algebra 1: Expressions, Equations, and Applications, Classics Edition* by Paul Foerster 978-0131657083
- (Optional) *Solutions Manual for Algebra I* – 978-0201861006

Instructor: Claudine Graham  
1 hour/twice a week/32 weeks

### **Geometry**

**High School (Grades 9 – 12)**

#### **Prerequisites: Algebra I**

Harold Jacob's Geometry created a revolution in its approach to teaching the subject of geometry. This textbook course uses innovative discussions, cartoons, anecdotes, examples, and exercises that unfailingly capture and hold the student's interest. Students will approach new postulates or theorems and then work through different applications. They will prove theorems using a variety of formats and solve problems about circles, triangles, quadrilaterals, and other polygons. Students will apply their earlier experience with dilation and proportional reasoning to build a formal understanding of similarity. Their experience with two-dimensional and three-dimensional objects will be extended to include informal explanations of circumference, area and volume formulas. Students will also use a rectangular coordinate system to verify geometric relationships. Classes will be held in two 1-hour sessions per week.

#### **Text:**

- *Geometry: Seeing, Doing, Understanding*, Third Edition by Harold R. Jacobs - 978-0716743613 or 978-1683440208 (different covers, same edition)

Instructor: Claudine Graham  
1 hour/twice a week/32 weeks

## MATHEMATICS (continued)

### Algebra II

(Grades 10 – 12)

#### **Prerequisites: Algebra I**

Using Paul Foerster's *Algebra and Trigonometry: Functions and Applications*, this Algebra 2 course presents algebra as a study of special classes of functions. In the process, relationships between theory and real-world applications are thoroughly explored, bringing the material to life. This one-year course will focus on Algebra 2 concepts and a basic introduction to trigonometry functions. Classes will be held in two 1-hour sessions per week.

#### **Texts:**

- *Algebra & Trigonometry: Functions and Applications* by Paul Foerster – 978-0131657106
- Optional: *Solutions for Algebra and Trigonometry: Functions and Applications* – 978-0201252866

Instructor: Trista McMorrow

1 hour/twice a week/32 weeks

## SCIENCE

### **Elementary Science - Chemistry & Physics**

**(Grades 4 - 6)**

Using the newest book in Apologia's Young Explorer Series *Exploring Creation with Chemistry and Physics*, this course will introduce your children to the fascinating world of chemistry and physics! The activities and projects in this course are sure to delight and inspire young minds. Young scientists will begin by exploring the basic building blocks of creation, atoms and molecules and then journey through simple chemicals, the laws of motion, and energy in its many forms, before discovering concepts of electricity and magnetism. Along the way, your students will make their own bouncy ball, formulate a smoke bomb, build a solar oven, and create a lava lamp! As they discover the world and how it works, they will simultaneously be glorifying God as the Master Designer!

#### **Texts:**

- Apologia Young Explorers Series: *Exploring Creation with Chemistry and Physics* 978-1935495987
- *Chemistry and Physics Notebooking Journal* 978-1940110059

Instructor: Pam Scott

Materials Fee: \$30

1½ hours/32 weeks

### **Elementary Science- Zoology 3 - Land Animals of the Sixth Day**

**(Grades 1-3) & (Grades 4 - 6)**

What should you do if you encounter a bear? What separates people from apes? Which mammals are poisonous? What disease do armadillos sometimes carry? Why do elephants blow dust? Which is the most dangerous animal in Africa? Why don't snakes blink? What evidence do we have that dinosaurs lived during the same time as people? Zoology 3 students will find the answers to these questions and more as they study *Land Animals of the Sixth Day*. This course takes students on an exciting safari to learn about many different kinds of animals that live in jungles, forests, deserts, farms, and even their own backyard. Students will gain a better understanding of how scientists classify animals. They will also begin to identify animal tracks as well as animal habitats. Additionally, students will be exposed to some world geography as they identify the places that each type of animal would typically be found. Young scientists will strengthen their knowledge of these animals through at-home reading, notebooking, in-class discussions, projects, creative writing, drawing, and hands-on labs. Students will work on a fun ongoing land animal project at home throughout the course of the year. Completed projects will be presented at the end of the year.

#### **Texts:**

- Apologia Young Explorers Series: *Exploring Creation with Zoology 3: Land Animals of the Sixth Day* 978-1932012859
- *Zoology 3 Notebooking Journal* 978-1935495130 (Grades 4-6)
- *Zoology 3 Junior Notebooking Journal* 978-1935495628 (Junior Journal) (Grades 1-3)

Instructor: Pam Scott

Materials Fee: \$30

1½ hours/32 weeks

## SCIENCE (Continued)

### **Note to parents regarding upper science classes:**

Students should expect to at about 1 hour per day on their science assignments (some of the upper level sciences may require more than that depending on the module being covered). Prior to signing their child's assignment sheet, parents should check to see that their child completed all the required work. Parents are encouraged to correct the study guide and practice problems and have students redo any problems that they missed. Parents do not need to understand the material but just be involved enough in the process so that they know if their child is having difficulty. Students should come to class prepared with questions on any concepts in the text they did not understand or practice problems they did not get correct. Tests should be proctored and signed by the parent and completed in one sitting. The syllabus for each individual course will outline what the student is permitted to use on a test (calculator, periodic table, etc.). Tests should also be submitted to the teacher UNGRADED. **All work must be the student's own work and not copied from an answer key, solutions manual, or another student.** Copying from any source will be considered cheating and may result in the student not receiving any credit for the assignment or test.

### **General Science**

**(Grade 7)**

This course is designed to be a student's first systematic introduction to the sciences. The course covers such topics as the history of science, the scientific method, documenting and interpreting experimental results, astronomy, geology, paleontology, meteorology, oceanography, general chemistry, physics, biology and marine and environmental science. There are many hands-on experiments laid out in the book, and as many experiments as possible will be performed in class.

### **Texts (Note: must be new 3<sup>rd</sup> edition – these should also be available as a set):**

- *Exploring Creation with General Science, 3<sup>rd</sup> Edition*, Apologia Educational Ministries - 978-1946506276
- *Exploring Creation with General Science 3<sup>rd</sup> Edition Student Notebook*, Apologia Educational Ministries - 978-1946506306
- *Exploring Creation with General Science 3<sup>rd</sup> Edition Solutions and Test Manual*, Apologia Educational Ministries – 978-1946506283

Instructor: Melissa Price

Materials Fee: \$30

1½ hours/32 Weeks

## SCIENCE (Continued)

### **Physical Science**

**(Grade 8 - 9)**

This course is designed to be the last science course the student takes before high school biology. The course discusses topics such as the basics of science, scientific inquiry, chemistry, energy, physics of motion, waves and sound, light, electricity, magnetism, the structure of the Earth, Earth's atmosphere, Newton's Laws, gravity, chemistry and physics in life sciences and conducting research. There are many hands-on experiments laid out in the book, and as many experiments as possible will be performed in class. It is an excellent course for preparing the student to take a college-prep high school science curriculum.

**Texts (Note: must be new 4th edition – these should also be available as a set):**

- *Exploring Creation with Physical Science, 4th Edition textbook* - 978-194506511
- *Exploring Creation with Physical Science, 4th Edition Student Notebook* – 978-1946506542
- *Exploring Creation with Physical Science, 4th Edition Solutions and Test manual* – 978-1946506528

Instructor: Melissa Price

Materials Fee: \$30

1½ hours/32 Weeks

### **Biology**

**(Grade 9 - 10)**

#### **Honors Level**

This course is designed to be a student's first high school science course. It is a challenging course, covering topics such as the five-kingdom animal classification system, an introduction to basic biochemistry, the cell, cellular reproduction and DNA, genetics, and a critique of the theory of evolution. There are many hands-on experiments laid out in the book, and as many experiments as possible will be performed in class.

**Texts (Note: must be new 3<sup>rd</sup> edition – should also be available as a set):**

- *Exploring Creation with Biology, 3<sup>rd</sup> Edition textbook* – 978-1946506450
- *Exploring Creation with Biology, 3<sup>rd</sup> Edition Student Notebook* - 978-1946506481
- *Exploring Creation with Biology, 3<sup>rd</sup> Edition Solution & Tests manual* – 978-1946506467

Instructor: Trista McMorrow

Materials Fee: \$40

1½ Hours/32 Weeks

## SCIENCE (Continued)

### **Chemistry (Grade 10 – 12)**

**Prerequisites: Algebra I**

#### **Honors Level**

This course is designed to be the high school student's first systematic study of chemistry. It should prepare students for the transition to a college chemistry course. Topics covered include measurements and units, energy, heat, and temperature, classifying matter, stoichiometry, atomic and molecular structure, and acid/base chemistry. Many of the hands-on experiments described in the book will be completed in this course.

#### **Texts (Note: must be new 3<sup>rd</sup> edition – should also be available as a set):**

- *Exploring Creation with Chemistry, 3<sup>rd</sup> Edition textbook* - 978-1940110257
- *Exploring Creation with Chemistry, 3<sup>rd</sup> Edition Student Notebook*, Apologia Education Ministries - 978-1940110417
- *Exploring Creation with Chemistry, 3<sup>rd</sup> Edition Solutions & Tests manual* 978-1940110264

Instructor: Trista McMorrow

Materials Fee: \$30

1½ hours/32 Weeks