

Secondary Classes: High School:

Ages 14-18 9th-12th Grades



Math

Algebra 1

Saxon Algebra 1, 4th Edition

Saxon Algebra 1 is a college-preparatory course that helps students develop algebraic thinking, reasoning skills, higher-order thinking skills, and application skills. This course covers the foundations of algebra: functions and relations; equations; linear equations and functions; polynomials; rational expressions and functions; inequalities; systems of equations and inequalities; radical expressions and functions; quadratic equations and functions; absolute-value equations and inequalities; and probability and data analysis. It introduces the use of a graphing calculator in labs designed to model mathematical situations.

Each lesson introduces a concept and then explains the concept through examples. Practice problems and a problem set follow each lesson. Class time will include the presentation of concepts for the week's lessons, with guided practice, and answering of student questions. Students will be expected to complete their homework assignments for the next class. A spiral notebook will be used. This is a 32-week, 2 semester course.

Prerequisite: Successful completion of Pre-Algebra

Geometry

Teaching Textbooks: Geometry 2.0

Teaching Textbooks' *Geometry* begins with an introduction of logic, reasoning, and Euclid, and then moves quickly into formal proofs, theorems, and postulates. Practical applications of geometry are included in some lessons. Solid figures, analytical geometry and constructions are reserved for the final chapters of the book.

In each lesson, a new concept is presented, with examples. Students then work several practice problems and a problem set that always includes review of material learned in previous lessons.

In this course, the concepts for the upcoming week's lessons will be presented during class time and practice problems will be worked. Students will have opportunities to ask for and receive help from the teacher. Students should come to class with homework assignments completed. A spiral notebook and Teaching Textbooks: *Geometry 2.0* is used. This is a 32-week, 2 semester course.

Prerequisite: Algebra 1

Algebra 2

Saxon Algebra 2, 4th edition

This course is a college preparatory course that enables students to tackle even more challenging courses after completion. Students are prepared for trigonometry and calculus through embedded instruction in geometry. The text also includes uses for chemistry and physics.

Each lesson introduces a concept and then explains the concept through examples. Practice problems and a problem set follow each lesson. Continual review of previously explained concepts helps students achieve mastery. Class time will include the presentation of concepts for the week's lessons, with guided practice, and answering of student questions. Students will be expected to complete their homework assignments for the next class. Parental involvement may be required. A spiral notebook will be used and a graphing calculator will be used in some lessons. This is a 32-week, 2 semester course.

Prerequisite: Algebra 1

Pre-Calculus

Saxon: Advanced Math



Physical Science Ages 13-15; 8th, or 9th grade

Apologia: *Exploring Creation With Physical Science*; **2nd edition**

From the publisher: "*Exploring Creation With Physical Science* provides a detailed introduction to the physical environment and some of the basic laws that make it work. The fairly broad scope of the book provides the student with a good understanding of the earth's atmosphere, hydrosphere, and lithosphere. It also covers details on weather, motion, Newton's Laws, gravity, the solar system, atomic structure, radiation, nuclear reactions, stars, and galaxies."

Students in Physical Science will be expected to read the text and answer questions so that they can contribute to class discussions and projects. Some individual projects will also be assigned. Students will perform experiments in class and will keep a lab notebook. This is a 32-week, 2 semester course.

Recommended: Concurrent enrollment in Pre-Algebra or successful completion of Pre-Algebra

Biology Ages 14-16 9th or 10th grades

Apologia; *Exploring Creation with Biology*; 2nd edition

From the publisher: "*Exploring Creation With Biology* is a college-prep biology course that provides a detailed introduction to the methods and concepts of general biology. Heavily emphasizing the vocabulary of biology, it provides the student with a strong background in the scientific method, the five-kingdom classification scheme, microscopy, biochemistry, cellular biology, molecular and Mendelian genetics, evolution, dissection, and ecosystems."

Students in Biology will be expected to read the text and answer questions so that they can contribute to class discussions and projects. Some individual projects will also be assigned. Students will perform experiments in class and will keep a lab notebook.

Prerequisite: Successful completion of Algebra 1 or concurrent enrollment in Algebra 1

Chemistry Ages 15-18 10th-12th grades

Apologia; *Exploring Creation With Chemistry*; 2nd edition

From the publisher: "This course is designed to be a first-year high school chemistry course and gives the student a rigorous foundation in Chemistry, in order to prepare him or her for a college-level course. The course covers significant figures, units, classification, the mole concept, stoichiometry, thermochemistry, thermodynamics, kinetics, acids and bases, redox reactions, solutions, atomic structure, Lewis structures, molecular geometry, the gas laws, and equilibrium."

Students in Chemistry will be expected to read the text, answer questions, and work the assigned problems so that they can contribute to class discussions and projects. Some individual projects may also be assigned. Students will perform experiments in class and will keep a lab notebook.

Prerequisite: Successful completion of Algebra 1.

Human Anatomy & Physiology

Apologia; *Human Anatomy and Physiology*

From the publisher: "This course covers both the anatomy and physiology of the human body's eleven organ systems in detail. Parents please note that the reproductive system is covered in detail, including illustrations and descriptions."

Students in this class will be expected to read the text and answer questions so that they can contribute to class discussions and projects. Some individual projects will also be assigned. Students will perform experiments in class and will keep a lab notebook.

Prerequisites: Successful completion of one year of each:

- **High School Biology**
- **High School Chemistry**



Literature and Writing

Ages 14-18 9th-12th grades

Institute for Excellence in Writing: *Windows to the World: An Introduction to Literary Analysis*

From the publisher: “*Windows to the World...* teaches students how to read, infer, analyze, and write about literature. Additionally it recognizes the power of literature to influence readers for good or ill, and consequently, it seeks to teach students to recognize an author’s worldview and exercise discernment when reading.”

Students will work exercises, do projects, and write essays in this course. They will be expected to complete their assignments and come to class prepared. The text, *Window to the World* is used. Resources on the internet will be used for additional practice. This is a 16-week, 1 semester course.

Prerequisite: Students should be able to write an understandable paragraph with a topic and clincher sentence.

Literature and Writing

Ages 14-18 9th -12th grades

Institute for Excellence in Writing: *The Elegant Essay Writing Lessons*

This course will introduce the student to the fundamental components of essay writing: structure, content, style, mechanics, and voice. Students will learn how to write introductions, thesis statements, the body of the essay, and conclusions—all needed to write an effective essay. They will work practice exercises and will “bring their words and their arguments to life” as they write.

Students will be expected to complete their assignments and come to class prepared. The text, *The Elegant Essay Writing Lessons* is used. Resources on the internet may be used and access to a good thesaurus is needed. This is a 16-week, 1 semester course, offered the spring semester, 2014.

Literature and Writing

Ages 14-18 9th - 12th grades

Institute for Excellence in Writing: *American Literature: Excellence in Literature-- Reading and Writing Through the Classics*

From IEW, “High school students will put literary analysis skills into practice as they study and write about ten great works of American literature”. Students in this course will strengthen their own writing skills while examining the works of important American writers. They will familiarize themselves with the worldview of the author, as well as the events of the time period in which the author wrote. Art and music of the time period will also be studied in order to read each work “in context”. Students will need to purchase each of the following:

- *Autobiography* by Benjamin Franklin
- *Rip Van Winkle & The Legend of Sleepy Hollow* by Washington Irving and *Selected Works* by Henry Wadsworth Longfellow
- *The Last of the Mohicans* by James Fenimore Cooper
- *The House of Seven Gables* by Nathaniel Hawthorne
- *Moby Dick* by Herman Melville
- *The Adventures of Huckleberry Finn* by Mark Twain
- *House of Mirth* by Edith Wharton
- *The Great Gatsby* by F. Scott Fitzgerald
- *The Old Man and the Sea* by Ernest Hemingway

Internet resources are also provided by the publisher for additional information and study. Students should come to class with assignments prepared. This is a 32-week, 2 semester course.

Literature and Writing

Ages 14-18 9th – 12th grades

Institute for Excellence in Writing: *British Literature: Excellence in Literature—Reading and Writing Through the Classics*

Context information is studied with each literary work to provide the student a deeper understanding of the time period, its history, art, music, and other influences. The world view of each author and the focus text is examined. Emphasis is placed on writing analytical essays and the students will have the opportunity to organize and write rough drafts, to participate in peer editing, and to revise essays. Students will need to purchase a copy of each of the following:

- *Beowulf*
- *Canterbury Tales* by Geoffrey Chaucer
- Edmund Spenser, *Sir Gawain*, and the Arthurian Legend
- *King Lear* by William Shakespeare
- *Paradise Lost* by John Milton
- *Pride and Prejudice* by Jane Austen
- *Great Expectations* by Charles Dickens
- *Wuthering Heights* by Emily Bronte
- *To The Lighthouse* by Virginia Woolf

Internet resources are also provided by the publisher for additional information and study. Students should come to class with assignments prepared. This is a 32-week, 2 semester course



Old Testament and New Testament Survey

Ages 14-18 9th - 12th grades

Moody Publishers: *Survey of the Old Testament and Survey of the New Testament* by Paul Benware

From the publisher: "Most Christians do not have a clear understanding of the pattern, unity, or progression of the Old Testament. They can tell stories of Moses, Noah, and David but aren't sure how all these events fit together. But the Old Testament does not have to be mysterious or confusing. Dr. Benware offers a chronological approach to give you a bird's-eye view of the historic value of the Old Testament, while his book-by-book analysis reveals important details and emphases."

"The New Testament is worthy of a lifetime of study, as it answers the most significant questions people have asked," says Paul Benware. What is the purpose of life? Is there any real hope? What is God like? Can I be freed from guilt and sin? Jesus Christ is the only answer to those questions."

Reading and study, lively class discussions, group and individual projects will all be part of this course. Students will be expected to come to class prepared to participate in discussions. This is a 32-week, 2 semester course.

Worldview

Ages 15-18 10th-12th grades

How Now Shall We Live? by Charles Colson and Nancy Pearcey

From the publisher: Christianity is more than a personal relationship with Jesus Christ. It is also a worldview that answers life's basic questions and shows us how we should live as a result of those answers. *How Now Shall We Live?* equips Christians to confront false worldviews and live redemptively in contemporary culture. *How Now Shall We Live*, is used as the text for this Bible course and will be the springboard for projects and class

discussions on the Christian's role in education, government, and indeed in all of society. Students will be challenged to learn what God expects of them and to begin to live to impact others' lives. This is a 32-week, 2 semester course.



Spanish 1

Ages 14-18

9th-12th grades

Pearson-Prentice Hall: *Paso a Paso, Level 1* text and workbook

Spanish 1 is a high school level course that includes speaking, listening, reading, and writing skills. Since Spanish is the second most frequently spoken language in the world, one of the goals of this course is to introduce students to the many Spanish-speaking peoples and cultures. Students will learn useful vocabulary and will practice using it in class, as they work on conversation skills. Present tense is learned in this course, along with the present imperative. Exercises to reinforce what is being learned in class will be assigned as will some projects.

Students should come to class with assignments prepared and ready to participate in small groups and class practice. This text is available to rent from ACS and workbooks have been purchased for students to buy through the school. Please note: This is a 32-week, 2 semester course that meets twice weekly for an hour each time.

Spanish 2

Ages 14-18

9th-12th grades

Pearson-Prentice Hall: *Paso a Paso, Level 2* text and workbook

Spanish 2 is a continuation of the first high school course. Vocabulary and grammar content are expanded and the student will learn the preterit and imperfect tenses, as well as the present progressive. Again, the focus is on learning useful vocabulary and on increasing conversation skills. Assignments are made with this focus in mind.

Students should come to class with assignments prepared and ready to participate in small groups and class practice. This text is available to rent from ACS and some workbooks have been purchased for students to buy through the school. Please note: This is a 32-week, 2 semester course that meets twice weekly for an hour each time.



Music

Ages 14-18 9th – 12th grades

At these levels, there will be an emphasis on singing. We will explore possibilities for area and state competitions in choral music as well as solos. We will incorporate creativity as much as we can with some listening activities, as well as more complex rhythmic activities. These age levels can do combined class ensemble work for performances. Some of the performance possibilities include drama presentations (that can also include younger students), and a fall and spring concert/program.