

WHAT TO EXPECT IN Tenth Grade

MATH

Students in tenth grade study Algebra II which will grow their understanding that mathematics contains beauty, power, and order; that it can be used to model creation; and that its proper application brings glory to God. Students will learn to define and use algebra as a logical math language that expresses numerical/physical relationships found in God's created order. They will expand the applications and understanding of the algebraic, exponential, logarithmic, trigonometric, and geometric methods previously learned.

Topics include:

- Solving equations and inequalities
- Functions, Equations, and Graphs
- Polynomial Equations
- Rational Expressions
- Roots and radicals
- Real and complex numbers
- Exponential and Logarithmic Functions
- Quadratic Relations and Conic Sections

LANGUAGE

Tenth grade students will continue their foreign language studies with Greek II. Students will be trained in the alphabet, vocabulary, grammar, syntax, and pronunciation of Ancient Greek. By studying Greek, students prepare to engage with some of the greatest minds of all time — Homer, Plato, Aristotle, and more. Greek is especially pertinent for the Christian, for it is the language of the New Testament. If we wish to (in the words of The Book of Common Prayer) “read, mark, learn, and inwardly digest” God’s Word, we would do well to engage the Word in its original language. To do so opens up linguistic, rhetorical, and cultural nuance which is not as apparent in translation. The skills gained from this course will help students read the New Testament in the original language.

SCIENCE

In our study of Biology, students will study the nature of life through the lens of a Christian worldview. Students will learn the chemical basis of living cells, cell structure, function, division, and genetics. They will investigate and consider organisms and ecological interrelationships. Regular lab work will help students gain practical knowledge and experience while learning to write clear and accurate lab reports.

Topics include:

- Cellular Respiration
- Photosynthesis
- DNA
- Synthesis, Mitosis, and Cytokinesis
- Fungi and Plants
- Taxonomy
- Viruses
- The Musculoskeletal, Nervous, Circulatory, Digestive and Reproductive Systems
- Evolution

ENRICHMENT / SPECIALS

- Daily convocation
- Fine Arts offerings include Chorale, Strings, Theater, Art, Photography, and Design Media.
- Health offerings include Health, Physical Education, and Athletics.
- Elective offerings include Mock Trial, Debate, Yearbook, and World Language.
- As part of our Rhetoric Student Life, students will participate in our mentoring program, Rhetoric Seminar, service projects and class trips.



RHETORIC II

In accordance with the trivium, students continue the formal study of Rhetoric in tenth grade. As our students study the ancient Greek and Roman cultures, they learn much about sound reasoning, orderly thinking, and clear communication. However, these ancient cultures did not place much value on loving your opponent when presenting your argument. For Christians, convincing rhetoric must take into account Christ's call to love your neighbor as yourself, so at HCA we teach our students using "The Rhetoric of Love." This valuable tool helps our students to see the importance of empathy, understanding, and compassion in developing rhetorical arguments.

HUMANITIES IV

HCA's Humanities curriculum is a robust, cross-curricular course covering history, literature, and composition, that enters our Logic and Rhetoric students into the Great Conversation. Here students listen as the greatest minds in Western history detail and debate the nature of God, man, meaning, and salvation. From these arise politics, education, virtue, pastime, culture, and everything else. Spanning from creation to Christ, students engage firsthand with primary sources (as well as numerous secondary texts) from ancient Hebraic, Greek, and Roman traditions.

By providing a cumulative, chronological narrative of Western civilization, students are filled with a scope that allows for perspective. What is worthwhile? What is true, good, and beautiful? Since Christ is the Author, Sustainer, and Purpose of all things, history is the Christian's playground. Students travel from text to text, daily delighting in the Lord through this robust and exciting curriculum.

HUMANITIES IV: LITERATURE

In Literature & Composition, students engage with enduring classics from the ancient world through the first century. Students learn to read and appreciate the Great Works of ancient literature in light of the truth of Scripture. In addition to studies on history, theology, and literature, students will be introduced to and learn to think biblically about "aesthetics, anthropology (including world cultures and archaeology), law, philosophy, poetry, and political science (including politics)."

Works include:

- *Annals of Imperial Rome*
- *New Oxford Apocrypha*
- *The Apostolic Fathers*
- *The Bacchae* (Euripides)
- *The Clouds* (in *Lysistrata and Other Play*)
- *Iliad of Homer*
- *Introduction to Aristotle*
- *Job*
- "Gospel of Mark"
- *Metamorphoses* (Ovid)
- *On the Nature of Things* (Lucretius)
- "Philippians" & "Colossians"
- "Proverbs" & "Psalms"

HUMANITIES IV: HISTORY

Our Humanities IV History curriculum begins the second cycle of study regarding the ancient world. This course encourages students to read the Great Books and learn to integrate their understanding of theology, history, and philosophy into a unified perspective of the world around them. Students will examine the authors, contexts, characters, and worldviews all in the light of Christ.

Works include:

- *Josephus*
- *Cicero*
- *The War with Hannibal*
- *Meditations* (Marcus Aurelius)
- *Eclogues and Georgics* (Virgil)

