

# What to expect in 11<sup>th</sup> grade

**Characteristics of 11<sup>th</sup> grade** – First time to take the SAT/ACT College entrance tests beginning in January. There should be an increased initiative on the part of the student to communicate with teachers, as well as a personal responsibility to keep up with assignments and projects. Students who are driving are required to fill out a driving permit and pay a \$10 parking fee. Students are required to participate in Community Service – all high school students must complete 8 hours of service during the school year. These hours must be served in the community, NOT in school, family, church, or foreign missions. Selected 11<sup>th</sup> grade students will be participating in a mission trip.  
Classes – SAT prep, American Literature, US History, AP US History, Bible, Chemistry, Algebra III or Pre-Calculus, and an Elective

**Homeroom supplies – please provide two boxes of Kleenex**

**General supplies for all classes – You may choose to get a three-ring binder for each class or one large three-ring trapper keeper for all classes. Organization is Key! Students will need the following items in all classes: blue/black pens, pencils, notebook paper (college ruled) and at least two flash drives. All students will need access to a computer, the internet, and a printer. Please pay attention to specific supplies needed for each class listed below.**

**Science** – Chemistry – The chemistry class will provide the students with a foundational knowledge of chemistry, an appreciation of its many benefits to mankind, and a better understanding of the physical world that God has created. The course will include abstract concepts, such as structure of atoms, structure and properties of matter, and the conservation and interaction of energy and matter.

**Specific supplies needed** – 2 dividers, 2 composition-style notebooks (no spiral bound), TI-83 or 84 calculator. **Girls:** dish soap; **Boys:** Clorox wipes.

**US History** – A comprehensive study of United States History gives the student a solid foundation of knowledge about the heritage of this country. Discussions will take place involving the six spheres of human activity: Politics, Economics, Religion, Society, Ideas, and Art. A mosaic of major events, dates individuals, and their consequences will be the emphasis of this class, along with certain aspects of critical thinking as to why certain events occurred at the time they occurred and the effects on a global scale.

**Specific supplies needed** – dividers for your notebook, and colored pencils.

**SAT Prep** – Students will discuss the purpose of college entrance tests and how colleges use them. Students will study general test-taking tips. Students will discover the verbal, mathematical, and writing skills measured by the SAT by testing over sections of the real SAT and ACT. This course will also allow students to research careers, majors, colleges, and course offerings, as well as become very familiar with “Collegeboard.com,” “Gacollege411.org,” and other helpful college and scholarship websites.

**Specific supplies needed** – Ruler (to be kept in the classroom) and a 120 page spiral notebook (to be kept in the classroom) TI-83 or 84 calculator, and pencils

**Pre-calculus** – Students will model and analyze using functions and graphs, explore the theory and applications of specific families of functions, analyze and apply exponential, logistic, and logarithmic functions, solve systems of equations using several techniques, find the values of trigonometric functions, draw and use graphs of trigonometric functions and their inverses, solve triangles, verify and use trigonometric identities, analyze and apply vectors and polar equations, explore the discrete math topic of combinatorics, the binomial theorem, probability, and sequences and series.

**Specific supplies needed** – TI-83 or 84 graphing calculator, jumbo book cover, protractor

**College Algebra/Trigonometry** – Students will analyze, solve and graph linear relations and functions; solve systems of linear equations and inequalities graphically and algebraically; investigate families of graphs, symmetry, continuity, and behavior and transformation of graphs; solve quadratic, rational, and radical equations and inequalities; assess and graph exponential and logarithmic functions; solve triangles; find the values of trigonometric functions; draw and use graphs of trigonometric functions and their inverses; verify and use trigonometric identities.

**Specific supplies needed** – TI-83 or 84 graphing calculator, jumbo book cover, protractor

**American Literature** – Classes will be conducted using a variety of learning/teaching tools. Students will participate in reading both orally and on their own, whether in the classroom or at home. Reading comprehension will be measured through questions taken from the material, essays based on the reading, and in-class discussion. Projects, such as presentations and activities, will be administered to help enhance the learning process as students go along. Vocabulary will be taught on a daily basis using the required course book, as well as in-class games and assignments. Students will focus on a critical analysis essay, perfecting the MLA style of documenting, as well as organization and conveyance of ideas. Novels for Standard and Honors classes - *The Scarlet Letter*, *The Great Gatsby*, *The Old Man and the Sea*, *The Call of the Wild*, *The Princess Bride*, and *Fahrenheit 451*.

**Specific supplies needed** –a 2-inch 3-ring notebook, highlighters, colored grading pen, flash drive, and a set of 4 dividers for your notebook. We will also be blogging, so students need regular access to a computer and the internet.

**Bible** – Students in 11th/12th grades will have a choice of several topics including: Missions, Worldviews, Apologetics, Revelation/Daniel, Christian Living, etc.

**Specific supplies needed** - Bible