



SLCA SYLLABUS 2018-2019 PRE-ALGEBRA 7

Mission Statement: SouthLake Christian Academy exists for the sake of God's glory and mission; proclaiming the gospel and discipling the whole person in all aspects of God's reality.

Course Description: Students who complete this course will be introduced to algebraic and general mathematical concepts necessary to equip them for success in the field of algebra. Students will explore various topics of algebra, geometry, and statistics, including study of both theoretical and real-life applications. Included in this is repeated exposure to and investigation of rational, signed, and variable quantities, accompanied by the practice of graphing of such matter on number lines and coordinate planes.

Course Objectives: Students who complete this course will be introduced to algebraic concepts to equip them for college prep courses and to enable them to better understand God's world mathematically. Upon the completion of this course, students should be able to:

1. Understand and apply order of operations, as related to integers and rational numbers, and in the context of equations and inequalities
2. Work with exponents and polynomials, absolute value, and linear equations and their graphs
3. Identify properties and solve algebraic equations and inequalities
4. Investigate the geometric concepts of perimeter, area, surface area, and volume
5. Compare fractions, mixed numbers, and decimal numbers
6. Complete word problems involving percent, ratios, probability, and numerical and graphical measures of statistics
7. Determine length and angle for basic lines of geometry (points, lines, rays, and angles)

Technology: Students will use a calculator provided by the teacher as needed throughout the course. No calculators should be brought to class unless otherwise stated. Students may purchase a scientific calculator if desired.

Evaluation: The course will be evaluated as follows:

Homework & Classwork is worth **10%** of the student's total grade. Homework will be assigned and **checked for completion** on a daily basis. **Completion** is defined as all problems attempted, with work shown appropriately and adequately. Refer to the Parent/Student Handbook for the SouthLake Christian Academy Homework Policy. It is the student's responsibility to find out what assignment(s) need to be made up due to absence (assignments provided on Renweb under the Homework section).

Quizzes are worth **30%** of the student's total grade. Quizzes will be given on a regular basis and ***may or may not be announced***.

Tests will be weighted as **60%** of the student's total grade. Tests will be given approximately every 2 weeks, and will be posted in the Quarterly Assignment Calendar on RenWeb.

ALL ASSIGNMENTS AND ASSIGNMENT DATES on RenWeb are subject to change.

****Extra Credit**, beyond possible bonus opportunities during tests, will not be provided as per school policy. Bonus opportunities on tests will not cause the final grade to exceed 100%.

Classroom Expectations: Our goal is that SouthLake Christian Academy students will learn to bear responsibility for their own success. In an effort to support students in achieving this goal, we have established the following classroom expectations:

1. Submit to authority. (Romans 13:1-2) – Follow all rules and procedures as outlined in the SouthLake handbook as well as the Class rules and procedures handout given on the first day of class.
2. Treat others with respect. (Matthew 7:12) – Treat others with respect and kindness in word and action. Speak when invited to do so by the teacher.
3. Be prepared. (1 Timothy 6:18-19) – Come to class ready with all required materials and/or assignments. Be in your seat ready to start class when the bell rings.
4. Be eager. (Colossians 3:23) – Display a positive attitude about learning. Listen actively. Participate appropriately during class activities.
5. Focus your energy. (Ecclesiastes 3:1) – Keep discussions and comments pertinent to the topic being covered. Gum is not permitted in the classroom at any time. Food and drink should be limited only to the time designated for snacks. A water bottle with a secured lid is permitted at any time as long as it is not a distraction to others.
6. Display academic honesty. (Proverbs 12:17-22) – Complete your own work honestly using only those resources permitted by the teacher.

Required Supplies:

- Pencils, eraser
- Colored pens (*not* black)
- Ruler with centimeters and inches
- 1 1/2" - 2" 3-ring binder
- Tabbed dividers for 3-ring binder
- College ruled notebook paper
- Graph paper