

## Pre-Algebra: Course for Grade 8 and Advanced Grade 6 and 7

This course will be based on topics in the McGraw Hill Education Pre-Algebra curriculum in ALEKS, an online program that is self-paced. Students will need Internet access along with a laptop, Android Tablet, Chromebook, or iPad to access assignments from the McGraw Hill Education ALEKS program. The benefit of the ALEKS program is its diagnostic function which allows the teacher at any time to determine what an individual student has mastered, has learned or is ready to learn. Targeted instruction in the classroom then provides individual support so that the student can proceed through 10 Objectives to develop fundamental skills needed to prepare for Algebra I and Algebra II. Course will briefly review basic topics: real numbers, fractions, decimals, percents, ratios and proportions. Following the review, students will learn the basics of simplifying algebraic expressions, solving linear equations, inequalities, operations using exponents, polynomials and coordinates to graph equations. Word problems will offer the opportunity to apply skills to real world situations. Students will take lecture notes in a composition book covered by the supply fee and provided by the teacher along with handouts. Research has shown that students who took notes by hand remembered facts in the short term and conceptual information over time. Mathematical notation is a form of language that builds higher order learning in analysis and critical thinking and will be treated as such.

The supply fee is \$5.00 and the 40-week subscription to ALEKS is \$35 per student for a total of \$40 payable by check to Nancy A. Roell at the time of registration. Before a student can receive the access code for ALEKS online the payment must be made along with registering the student's name and an e-mail address to allow communication between the teacher and the student. Parents should determine the appropriate e-mail address for this purpose. On the first Friday of the course, students will be given initial logon instructions to begin using ALEKS which is on the Worldwide Web.

The tuition fee is \$45 per month also payable by check on the first Friday of each month. I will be happy to visit with you to answer questions at (210) 826-8459 or e-mail me at [drnroell@sbcglobal.net](mailto:drnroell@sbcglobal.net).

To check on requirements for equipment go to [https://www.aleks.com/support/system\\_requirements](https://www.aleks.com/support/system_requirements)