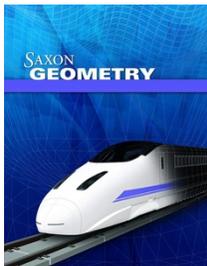


GEOMETRY 2019 - 2020



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Geometry is fascinating, and it is everywhere! Knowing how and when to use the basic skills from this course can lead to enriching life experiences and a successful academic career. We are going to have a great year exploring geometry together!

Course Description

Geometry is a critical component of a mathematics education because students are required to relate algebraic concepts to geometric phenomena. Geometry includes an in-depth analysis of plane, solid, and coordinate geometry as they relate to both abstract mathematical concepts as well as real-world problem situations. Topics include logic and proof, parallel lines and polygons, perimeter and area analysis, volume and surface area analysis, similarity and congruence, transformations, trigonometry, and analytic geometry. This course is designed to emphasize the study of the properties and applications of common geometric figures in two and three dimensions. Inductive and deductive thinking skills are used in problem solving situations. It also emphasizes writing proofs to solve (prove) properties of geometric figures. Proofs are taught very early and used throughout the course. Students will use different tools and manipulatives to discover and understand the course content.

The question is often raised, "When should a student take geometry?" Geometry can be placed either between Algebra 1 and Algebra 2 or after Algebra 2. This course assumes the student knows basic algebra skills. This course is similar to other geometry courses, but it has a bit more trigonometry than most. More trigonometry is preferred for two reasons. First, studying trigonometry will prepare the student for precalculus. Second, the ACT and SAT have trigonometry questions.

Course Outline

The Saxon Geometry curriculum we have chosen is slightly different from the Saxon course outline you may be familiar with. It is the same thorough, incremental approach that we have all come to have confidence in, but the testing schedule is different. Instead of a test after every 4 lessons, there is a test after every 5 lessons. We will need to cover the first 100 lessons and 19 tests to complete the geometry course for a total of 119 assignments. The last 20 lessons in the book are beyond the scope of a geometry course and those concepts will not be on the ACT. Each week will consist of four assignments (lesson problem sets and/or a test). Eventually we will incorporate ACT prep review. Allow about an hour and a half daily, four days a week, to finish your weekly assignment.

Course Materials

Listed below are the ISBN numbers and the names of the textbooks you will need to order. Your student will also need the accompanying DIVE cd-rom and a graphing calculator. These are available at Christianbook.com (1-800-christian) and Amazon.com.

Saxon Geometry ISBN-13: 978-1-602-77305-9

Saxon Geometry Solutions Manual ISBN-13: 978-1-6027-7561-9

Saxon Geometry Homeschool Testing Book ISBN-13: 978-1-6003-2977-7

Saxon Geometry DIVE cd-rom

ACT approved graphing calculator

Course Cost

\$320 per year - OR - \$480 per year includes weekly study sessions during A la Carte hours

Copy fee: \$25