

Geometry  
Mrs. Lydia Cade  
Cornerstone 2014-2015  
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**Geometry** is a course designed to deepen and expand a student's understanding of plane figures and solid shapes. In this course we will use *Geometry* by Jurgensen et al. (McDougall Littell, 2000). The ISBN-13 number is 978-0-395-97727-9, the ISBN-10 is 0-395-97727-4.

We will study different aspects of geometry "theory and application; informal and formal reasoning; symbolic and visual thinking; synthetic, coordinate, and transformational methods." Principles of logic and deductive reasoning skills will be stressed. The students will do concrete problems, deductive proofs, and constructions. There will be a regular review of algebra, as well as preparation for college entrance exams.

In addition to active participation in the 90 minute class period, students will need to devote 3 – 4 hours a week outside the classroom to take the weekly quiz, do the homework, and read the next lesson. The syllabus is flexible; the textbook is our tool, not our master. We will adjust the course to meet the needs of the students, so parental input is crucial.

The students need the textbook (2000 edition), notebook paper, graph paper, a ruler, compass (for drawing circles), protractor, and a binder or folders to keep their work organized and easily accessible. I often communicate to the students via email and frequently suggest online resources so it is important the students have access to the internet. I will also create some resources for the students which will be covered by the \$5 materials fee.

Taking Geometry at Cornerstone means more than just fulfilling a requirement for high school graduation; it is an opportunity to gain knowledge, skills, and interests for your future.

*Prerequisite: completion of Algebra 1 with at least a C (or the equivalent)*