

HHS MATH DEPARTMENT

COURSE: Geometry I/II

1022/1023 (NCAA)

RIGOR: Accelerated
(Above grade level)

Average
(On grade level)

Essentials
(Core concepts)

Pre-requisites: Algebra 1

Course Description: Concepts of geometric figures such as lines, angles, triangles, circles, quadrilaterals, prisms and pyramids including perimeter, area, and volume formulas will be stressed. Students will also be introduced to the concept of a geometric proof and review of equation solving from algebra.

Course Syllabus:

Semester 1

Chapter 1 (1.1 – 1.6)
Chapter 2 (2.1 – 2.6)
Chapter 3 (3.1 – 3.5)
Chapter 4 (4.1 – 4.6)
Chapter 5 (5.1 – 5.8)
Chapter 6 (6.1 – 6.6)

Basics of Geometry
Reasoning and Proofs
Parallel and Perpendicular Lines
Transformations
Congruent Triangles
Relationships Within Triangles

Semester 2

Chapter 7 (7.1 – 7.5)
Chapter 8 (8.1 - 8.4)
Chapter 9 (9.1 – 9.7)
Chapter 10 (10.1 – 10.7)
Chapter 11 (11.1 – 11.8)

Quadrilaterals and Other Polygons
Similarity
Right Triangles and Trigonometry
Circles
Circumference, Area, and Volumes

Minnesota Standards to be Mastered:

<http://education.state.mn.us/MDE/dse/stds/Math/>

Expected Homework: Daily assignments are due the next class period.

Grade Includes: Tests/Quizzes (80%), Homework (20%)