

# HHS MATH DEPARTMENT

**COURSE: Geometry Connections**

**1020/1021**

**RIGOR: Accelerated**  
(Above grade level)

**Average**  
(On grade level)

**Essentials**  
(Core concepts)

**Pre-requisites: Algebra Connections**

**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 – 1.7)

Chapter 2 (2.1 – 2.3, 2.5, 2.6)

Chapter 3 (3.1 – 3.3, 3.5, 3.6)

Chapter 4 (4.1 – 4.6, 4.8)

Chapter 5 (5.1 – 5.8)

Foundations for Geometry

Geometric Reasoning

Parallel and Perpendicular Lines

Triangle Congruence

Properties and Attributes of Triangles

### Semester 2

Chapter 6 (6.1 – 6.6)

Chapter 7 (7.1 – 7.3)

Chapter 8 (8.2 - 8.4)

Chapter 9 (9.1 – 9.3, 9.6)

Chapter 10 (10.1 – 10.8)

Chapter 11 (11.1 – 11.4)

MCA Review

Polygons and Quadrilaterals

Similarity

Right Triangles and Trigonometry

Extending Perimeter, Circumference and Area

Spatial Reasoning

Circles

## Minnesota Standards to be Mastered:

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

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

**Late Work Policies:** All homework must be completed by test day.

**Grade Includes: Tests, Quizzes, Homework**