Thomas Alva Edison High School
2025-2026



Geometry
Teachers: Matt Howard
Room: 306
E-mail Address:
matthew.howard@mpls.k12.mn.us

Course Description

Geometry is a year-long course that focuses on solving problems and justifying results using the properties of planar and three-dimensional figures. We will **investigate patterns** found in properties of geometric figures and use that information to make conjectures.

We will create **knowing and understanding** of how figures are related geometrically and algebraically. You will be expected to use correct language and geometric symbols to **communicate mathematics** throughout this course. We focus on both informal and formal proof of our discoveries. Throughout the learning process you will also **apply mathematics in real-world contexts**. You will have the opportunity to select appropriate mathematical models and justify how those relate to authentic real-life situations.

Course Topics

The units established in the OpenUp Geometry curriculum are:

- Unit 1: Transformations and Symmetry
- Unit 2: Congruence, Construction, and Proof
- Unit 3: Geometric Figures
- Unit 4: Similarity and Right Triangle Trigonometry
- Unit 5: Circles: A Geometric Perspective
- Unit 6: Measuring Circles, Angles, and Shapes
- Unit 7: Connecting Algebra and Geometry
- Unit 8: Modeling with Geometry
- Unit 9: Probability

What you should bring to class

Please come to EVERY CLASS prepared by bringing your math notebook, Chromebook, and a pencil. Other tools will be provided for your use (such as compasses, rulers, protractors, calculators, etc).

Academic Honesty Policy: Students are allowed and encouraged to work with classmates on classwork and homework but never during an individual quiz or test. Students who are caught cheating will receive a 0 and be required to schedule a retake.

Classroom Conduct Expectations:

The Edison school-wide expectations are followed in this classroom. Please refer to the student handbook for guidance around use of passes, attendance, Personal Electronic Devices (including cell phones), and timely arrival to class.

Grading Breakdown

80% Assessments

Each of the units established in the OpenUp Resources Curriculum will be broken down into learning targets, each of which reflects a specific mathematical skill. You will have several opportunities to demonstrate your comprehension of each learning target throughout the unit. Learning targets will be graded using the rubric shown.

MPS Grade Scale

RUBRIC SCORE	DESCRIPTORS	LETTER GRADE	
7-8	Excelling Always Extended Innovative	A/A-	I have demonstrated deep understanding that goes beyond the standard.
5-6	Mastering Often Completely Accurate	B+/B/B-	I have demonstrated learning that meets the standard.
3-4	Progressing Sometimes Partially Imprecise	C+/C/C-	I am getting close to meeting the standard.
2	Beginning Rarely Minimal Limited	D+/D/D-	I am beginning to work towards meeting the standard.
0-1		F	

Additionally, the OpenUp Resources Curriculum requires students to engage in problem-solving strategies involving unfamiliar content. Students' willingness to engage in this style of learning may be assessed as an Approaches to Learning (AtL) skill in the 80% category on a quarterly basis. Other assessed AtL skills may include organization, time management, and reflection.

Reassessment Opportunities: Students will have the opportunity to make corrections/revisions on summative assignments. Through corrections on quizzes, students will be able to earn back half the points they missed. After corrections are completed, students may schedule a retake for the potential of earning full credit.

20% Academic Practice

Students will receive a grade for practice assignments. These are meant to help enhance understanding of the learning objectives to proficiency.