

Course Description:

This course is a foundational course focused on the geometry of shapes, planes and space. Emphasis is placed on understanding, applying, justifying, and developing geometric properties in two and three dimensions. Students will engage in an in depth study of geometric reasoning, coordinate geometry, parallel and perpendicular lines, triangle congruence, properties of polygons and circles, similarity, right triangle trigonometry, area, and volume. Students will apply this learning to solve real-world mathematical problems. This course prepares students to be mathematically literate, as well as prepare them for future math courses, the high school MN Math Standards, and MN standardized math tests.

This is the only middle school math course that students earn high school credit.

Scope and Sequence:

Each unit students will receive a unit outline with a calendar, assignment outlook, learning outcomes and project sheet, but the general outline for the rest of the year looks like the following:

- Semester Diagnostic
- Unit 4 Wrap Up - Triangles and Proof
- Unit 5 a - Bisectors, Medians and Midsegments
- Unit 5 b - Pythagorean Theorem and Special Right Triangles
- Unit 6 - Quadrilaterals
- Unit 7 - Similarity and Proportionality
- Unit 8 - Trigonometry
- Unit 9 - Perimeter and Area
- Unit 10 - Surface Area and Volume
- Unit 11 - Circles
- Unit 12 - Transformations and Symmetry
- Algebra 2 Prep (Summer Practice)

Grading Policy:

Scores will be assessed as 60% Summative (Performance) and 40% Formative (Practice).

The formative category will be 20% Quizzes and 20% Check-In (Homework, Power Practice or Activity).

Assignments/Late Work:

Late work is not professional or responsible. In order to demonstrate mastery of a skill, students must show progress of independent practice and learning. Daily practice will be given with the expectation of completion and critical thinking. Only demonstrations of knowledge will be used to calculate a final grade, but completion of homework will be tracked and used to reflect a students' commitment towards responsibility and growth.

Scoring Criteria/Grade Translation:

All assignments and assessments will be scored on a 4-point scale. Each point on the scale has a very specific meaning.

4.0 = The student demonstrates an in-depth understanding of the material by completing advanced work showing Exceeding the standard.

3.0 – The student demonstrates Proficiency by mastering the targeted knowledge and skills for the class.

2.0 – The student is Partially meeting the standards by showing understanding but not demonstrating complete mastery of a skill.

1.0 – The student is able to demonstrate an understanding of foundational material with help, but is struggling to show understanding independently.

0.0 – Even with assistance from the teacher, the student can not show understanding of the material. Any missing work will be calculated as a zero and if not completed, will be recorded as a zero at the end of the quarter.

This meaning WILL NOT translate into an A-B-C-D or N in the gradebook, therefore in order to interpret your “Transcript Grade”, you will need to use the following scale:

Infinite Campus	Transcript Grade	4-point Scale
87.5 - 100	A	3.5 – 4.0
75 – 79	B	3.0 – 3.4
62.5 – 74.9	C	2.0 – 2.9
50 – 62.5	D	1.0 – 1.9
less than 50	N	0 – 0.9

Name _____ Date _____

I understand what this course is going to be covering and the manner in which I am going to be assessed for this course. I understand that grades are communication about my progress.

Student Signature
Parent Signature