

# Morton Middle School

## Course Syllabus

<b>Instructor:</b> Ben Citron	<b>Course:</b> Geometry (270401)
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### Course Description Geometry:

High School course. Introductory course. It engages students in the target language with developmentally appropriate activities to acquire the language necessary to communicate (interpret, exchange, and present information, concepts and ideas both within the classroom and beyond on a variety of topics including connections to other subject areas). Cultural aspects are typically included in order to understand the relationship among the products, practices and perspectives of the target language's culture. In addition, students develop insight into their own language and culture.

This course is the study of high school Geometry content. Upon completion of the course, students should be able to (1) reason quantitatively and use units to solve problems; (2) experiment with transformations in the plane; (3) understand congruence in terms of rigid motions; (4) prove geometric theorems; (5) make geometric constructions; (6) understand similarity in terms of similarity transformations; (7) prove theorems involving similarity; (8) define trigonometric ratios and solve problems involving right triangles; (9) understand and apply theorems about circles; (10) translate between the geometric description and the equation for a conic section; (11) use coordinates to prove simple geometric theorems algebraically; (12) explain volume formulas and use them to solve problems; (13) visualize relationships between two-dimensional and three-dimensional objects; and (14) apply geometric concepts in modeling situations.

**The course design follows the FCPS district pacing guide and curriculum framework, including common assessments. Upon course completion students should be able to meet the Kentucky Academic Standards for Geometry.**

**Course Objective** This course should be designed to meet the high school graduation credit for Geometry and to build a solid foundation necessary for future high school mathematics courses. This course contains modeling standards.

### Texts

*enVision Geometry* (Savvas/Pearson). All students have access to a hardback textbook, online textbook and two workbooks (one issued each semester).

### Supplies

Students are expected to come prepared each day with the following:

- Charged Chromebook
- Pencil
- Paper (binder or notebook)
- enVision student workbook

### Course Information/ Sequence of Learning

1. Foundations of Geometry
2. Parallel and Perpendicular
3. Transformations
4. Triangle Congruence
5. Relationships in Triangles
6. Quadrilaterals and Other Polygons

7. Similarity
8. Right Triangles and Trigonometry
10. Circles
11. Two – and Three – Dimensional Models

## **Grading**

The grading and homework policies at *Morton Middle School* are designed to provide accurate assignment of grades with the intent to demonstrate a clear relationship between student performance and student learning. All parents/guardians and students are asked to review the homework policy at the beginning of the year.

School-wide, categories of grade distribution will be used: Summative (70%), Formative (30%). These categories are defined below:

- Summative Assessments include: Topic Tests, District Common Assessments and Major Quizzes
- Formative Assignments include: Small Quizzes, Homework and any other daily class work

In order to monitor your student's progress, please obtain a password to access your child's grade on the parent portal of Infinite Campus by contacting the guidance office.

## **Make-up Work Policy**

It is the responsibility of the student to get make-up work from each teacher. For excused absences, students shall be allowed the same number of days to complete the make-up work, as they were absent, plus one (1) day.

## **Grading Scale**

- A: 90% - 100%
- B: 80% - 89%
- C: 70% - 79%
- D: 60% - 69%
- F: Below 60%