

Geometry 2019-2020

Mr. Belter - Room 205

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Overview of Geometry

In Geometry, you will further develop your reasoning and problem solving skills as you study topics that include congruence, similarity, properties of lines, triangles, quadrilaterals, circles, and much more. You will also be developing problem solving skills by using length, perimeter, area, circumference, surface area, and volume to solve real-world problems. Geometry will frequently connect back to topics learned in Algebra, especially through the use of solving algebraic equations, data analysis, and probability.

Semester 1 Units

Congruence, Angles, Reasoning and Proofs,
Parallel and Perpendicular Lines, Properties
of Polygons, Relationships in Triangles

Semester 2 Units

Right Triangle Trigonometry,
Properties of Quadrilaterals,
Properties of Circles, 3D Shapes

Essential Learning Outcomes Students should be able to state **I CAN ...**

1. Describe and measure various geometric figures.
2. Understand congruence in terms of rigid motions.
3. Use inductive and deductive reasoning.
4. Prove geometric theorems and make geometric constructions.
5. Use properties of parallel and perpendicular lines.
6. Prove relationships using angle measures.
7. Make connections to lines in Algebra.
8. Classify triangles and explain various properties about them.
9. Apply trigonometry to general triangles.
10. Apply volume formulas and use them to solve problems.
11. Visualize the relation between two-dimensional and three-dimensional objects.
12. Understand and apply theorems about quadrilaterals.
13. Understand and apply theorems about circles.
14. Find the surface area and volume of 3D solids.

Supply List

1. Scientific calculator with trigonometric functions (sin, cos, and tan)
2. Notebook(s)
3. Pen or Pencil (preferably pencil)
4. Folder

Classroom Rules and Expectations

1. Notebook(s), textbook, Chromebook. Pen or pencil (preferably pencil), folder, and calculator will be brought to class on time. (i.e. Come to class prepared)
2. Books must be covered at all times.
3. You must be in your seat when the bell rings and remain seated until the bell rings to end class.
4. Food or drinks, other than water, should not be brought to class. Gum is allowed provided it is not a distraction to others.
5. Cell phones are only allowed with teacher permission.
6. Show respect to classmates and myself throughout the entire class period. This means there will be no unnecessary talking during the class period.
7. Show up to class prepared and willing to be an active learner. This means participating in class discussions, whether it be by leading discussions or being an active listener.
8. **Do your own work. Cheating will result in no credit for that assessment.**
9. If you don't understand the material, make efforts to receive help. Whether it be asking questions during the class period or receiving help outside the class period. *I AM HERE TO HELP YOU!*

Grading System

Quarter grades will be determined as follows:

- 15% -- Homework/In-class assignments
- 25% -- Formative Assessments (Quizzes)
- 60% -- Summative Assessments (Unit Test)

Semester grades will be determined as follows:

- 42.5% -- 1st Quarter / 3rd Quarter
- 42.5% -- 2nd Quarter / 4th Quarter
- 15% -- Semester Exam

Students may drop their lowest quiz score each semester. Extra credit will be available at certain times *throughout* the course. This is at my discretion. In other words, do not ask for extra credit on the final week of the semester. Take advantage of it when it comes up throughout the course.

Grading Scale

93-100 A	80-82 B-	68-69 D+
90-92 A-	77-79 C+	66-67 D
87-89 B+	73-76 C	65 D-
83-86 B	70-72 C-	0-64 F

Retake Policy

Students who score below 80% on a summative assessment will be allowed to retake the assessment within the following parameters:

- Students must complete a review assignment and then have a teacher-student conference to ensure the student understands the material.
- All retakes must be completed within one week.
- Retakes can only be taken one time for the same assessment.
- The highest score on a retake will be 80% (the highest of the two scores will be recorded).

Students who score 80% or above will be allowed to retake only one summative assessment per semester using the same parameters as above with 90% being the highest score possible.

Additional Help

Students who are struggling or want extra help should talk to me as often as possible. I will be available before or after school by appointment. Throughout the school day you can get help during Advisory, 4th hour, 5th hour, or during lunch. Please try to let me know if you are coming beforehand to ensure I will be in my room. *Never be afraid to ask for help.*

Parents please call or email if you have any questions or your child needs additional help. Please *sign below* to signify that you have read and understand the policies in place for my classroom.

Student name (print clearly please) _____

Student Signature _____

Parent(s) name (print please) _____

Parent Signature _____

Date _____