

## **Geometry Essentials 2019-2020**

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### **Overview of Geometry Essentials**

In Geometry Essentials, you will further develop your reasoning and problem solving skills as we dive into the world of geometry. Topics covered throughout this course include the basics of geometry, segments and angles, parallel and perpendicular lines, and properties of polygons such as triangles and quadrilaterals. Throughout this course, we will further develop our skills in algebra, especially when we work with finding areas and volumes of solids.

#### **Semester 1 Units**

Basics of Geometry, Segments and Angles  
Parallel and Perpendicular lines, Triangle  
Relationships, and Congruent Triangles

#### **Semester 2 Units**

Quadrilaterals, Similarity,  
Polygons and Area, 3D Shapes,  
and Circles

**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. Use properties of parallel and perpendicular lines.
5. Prove relationships using angle measures.
6. Make connections to lines in Algebra.
7. Classify triangles and explain various properties about them.
8. Use trigonometric ratios within right triangles.
9. Apply volume formulas and use them to solve problems.
10. Visualize the relation between two-dimensional and three-dimensional objects.
11. Understand and apply theorems about quadrilaterals.
12. Understand and apply theorems about circles.
13. 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% -- 1<sup>st</sup> Quarter / 3<sup>rd</sup> Quarter
- 42.5% -- 2<sup>nd</sup> Quarter / 4<sup>th</sup> 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).

## **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 beforehand that you plan on stopping by to ensure that I will be in my classroom. *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 please)\_\_\_\_\_

Student Signature\_\_\_\_\_

Parent(s) name (print please)\_\_\_\_\_

Parent Signature\_\_\_\_\_

Date\_\_\_\_\_