# Geometry

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| Instructor | Ms. Lopez | Phone | 510-370-3334 |
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| Office Hours | 4:00pm-4:30pm or upon request |  | Quarter 3 |

### Text:

McDougal Little, Geometry

### Description:

Geometry brings math to life with many real-life applications. Examples of mathematics in sports, engineering, and carpentry will be shown throughout this unit. Three key aspects of geometry that will be emphasized are measuring, reasoning, and applying geometrical ideas. As you explore the applications presented in this quarter, try to make connections between mathematics and the world around you.

### Essential Understanding:

In Geometry, the student takes a more philosophical approach to the Mathematics in which they have become familiar. Instead of manipulating values, the student questions the very foundations of Geometry and builds a repertoire of rules to further prove more complex ideas. In doing so, they realize that Mathematics is an ebb-and-flow framework of logically consistent guidelines.

### General Guidelines:

## Lessons:

Lessons will be given throughout the class depending on the math level that you are in. You will have multiple lessons a week. If you are struggling with a concept it is your responsibility to review the lesson and ask questions. **It is a requirement to come to the lesson area and take notes**. I will be checking your notebook, making sure you are taking notes for credit. If you are absent on one of the days that there is a lesson it is your responsibility to get the notes either from google classroom or a peer.

## Individual Work:

33.33% of your grade is based on completing the assignments that will be assigned to you after every lesson. All assignments will be out of 10 points and assignments will be collected every week (Fridays). Use your class time properly, if you do not understand the individual work it is a good time for you to ask help from either your peers or me. **You must show work to receive full credit.**

## Group Work:

33.33% of your grade is based on completing and participating in group work. You must communicate with your group and do the group work together. If your team completes the group work however, you did not participate you will be getting no credit for that assignment. **You will not be able to make up any group work**.

## Final/Assessments:

33.33% of your grade is based on assessments and your final**. You will be able to use your notebook during the assessments and final.** You must make at least 70% to ‘pass’ the assessment. If you do not pass an assessment you may choose to retake a similar assessment however, you will not be allowed to use notes. You may also do test corrections for half of the remaining of the credit missed. You will not be able to make up the final exam nor make corrections on the final exam.

## Late Policy:

You will be able to make up any work if you have an **excused absent** for full credit and will be given extra days equal to the amount of days missed. If you need an extension you must email me **before** the day that the assignment is due. If I see that you are not using your class time properly you will not be given the extended time. If you get the extended time you will be able to receive full credit. If you turn in your assignment late without an extension you will be given a 7 out of 10 (C).

### Goals:

Triangles

Properties of parallelograms

Special Quadrilateral

### Requirements:

Parallelogram Partner Activity

### Resources:

Touring with Mr. Niemann, Ms. Sun, or myself

Khan Academy

### Course Schedule:

| Week | Guiding Question | Topic | Individual Work |
| --- | --- | --- | --- |
| January 8th -January 12th | **What does the midsegment theorem help you find?** | **-5.4:** Midsegment Theorem | **Vocabulary:**  -Midsegment of a triangle  **-**Theorem 5.9  **5.4 (P. 290 #’s 3-17 odds skip 11)**  **DUE: Tuesday January 16th at 4:00pm** |
| January 15th – January 19th |  | -**5.5:** Inequalities in One Triangle | **Vocabulary:**  -Theorem 5.12  -Theorem 5.13  **5.5 (P.298 #’s 7-19 odds)**  **DUE: Friday January 19th at 4:00pm** |
| QUIZ | **5.4-5.5** | **TUESDAY** | **JUANUARY 23rd** |
| January 22nd-Juanary 26th | **Identify, name, and describe polygons.** | -**6.1:** Polygons | **Vocabulary:**  -Polygon  -Sides  -Vertex  -Convex  -Noncovex  -Concave  -Diagonal  -**6.1**: **(P. 325 #’s 5-19 odds and 41-45 odds)**  **DUE: Friday January 26TH at 4:00pm** |
| January 29th-February 2nd | **Why are the properties of a parallelogram important?** | -**6.2:** Properties of Parallelograms | **Vocabulary:**  -Parallelogram  -Theorem 6.2  -Theorem 6.3  -Theorem 6.4  -Theorem 6.5  -**6.2: (P. 333 #’s 3-19 odds)**  **DUE: Friday February 2nd at 4:00pm** |
| QUIZ | **6.1-6.2** | **THURSDAY** | **FEBRUARY 1st** |
| MIDTERM I | **5.4-6.2** | **TUESDAY** | **FEBRUARY 6th** |
| February 8th-February 13th |  | **GROUP WORK** | **DUE: Thursday February 22nd at the beginning of class** |
| February 20th-February 23rd | **What is the difference between Quadrilaterals and Parallelograms** | -**6.3:** Proving Quadrilaterals are Parallelograms | **Vocabulary:**  -Theorem 6.6  -Theorem 6.7  -Theorem 6.8  -Theorem 6.9  -Theorem 6.10  -**6.3: (P. 342 #’s 3-13 odds 17 and 19)**  **DUE: Friday February 23rd at 4:00pm** |
| February 26th-March 2nd |  | -**6.4:** Rhombuses, Rectangles, and Squares | **Vocabulary:**  **-**Rhombus  -Rectangle  -Square  -Theorem 6.11  -Theorem 6.12  -Theorem 6.13  -**6.4 (P. 351 #’s 3- 21 odds)**  **DUE: Friday March 2nd at 4:00pm** |
| March 5th- March 9th | **How can you determine a shape is a Trapezoid?** | -**6.5:** Trapezoids and Kites | **Vocabulary:**  **-**Trapezoid  -Theorem 6.14  -Theorem 6.15  -Theorem 6.16  -Theorem 6.17  -**6.5 (P. 359 #’s 3-31 odds)**  **DUE: Friday March 9th at 4:00pm** |
| QUIZ | **6.4-6.5** | **FRIDAY** | **MARCH 9TH** |
| March 12th-March 16th | **No Class** | **Intersession Week** |  |
| March 19th -March 23rd |  | **-6.7:** Areas of Triangles and Quadrilaterals | **Vocabulary:**  -Theorem 6.20  -Theorem 6.21  -Theorem 6.22  -Theorem 6.23  -Theorem 6.24  -Theorem 6.25  -**6.7 (P. 376 #’s 3-27 odds)**  **DUE: Tuesday March 27th at 4:00pm** |

### Examinations:

FINAL EXAM

**THURSDAY MARCH 29th**