P.S. 035 Manhattan High School

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| Course Code: | MGS21QQB |
| Syllabus for: | Geometry |
| Teacher Name: | Pena |
| Year and Term: | 2017-2018 Term 2 |

Learning Standards:

G-CO - Congruence
G-SRT - Similarity, Right Triangles, & Trigonometry
G-MG - Modeling with Geometry
G - GMD - Geometric Measurement & Dimension
G-GPE - Expressing Geometric Properties with Equations
G-C - Circles

Course Description:

Hello and welcome go the Geometry Class. The Geometry curriculum is packed to the brim with all kinds of math goodness. As such there is no such time for dilly-dallying. In fact, with 12 units of study, we really have our work cut out for us. We will cover topics such as proofs, parallel and perpendicular lines, angles, polygons, similarity, trigonometry, transformations, and more.
Our studies will take us through the fundamentals of geometry, laying out the foundation needed for more advanced mathematics. We will consistently hone our reasoning skills, model with mathematics, and solve real-world problems involving all of the aforementioned topics. Every day is something new in store, so be prepared to work hard.

Calendar or Unit Map:

*6-1: The Polygon Angle-Sum Theorems, *6-2: Properties of a Parallelogram, *6-3: Proving That a Quadrilateral Is a Parallelogram, *6-4: Properties of Rhombuses, Rectangles, and Squares, *6-5: Conditions for Rhombuses, Rectangles, and Squares, *6-6: Trapezoids and Kites, *6-7: Polygons in a Coordinate Plane, *6-8: Applying Coordinate Geometry
*7-1: Ratios and Proportions, *7-2: Similar Polygons, *7-3: Proving Triangles Similar, *7-4: Similarity in Right Triangles, 7-5: Proportions in Right Triangles
*8-1: The Pythagorean Theorem and its Converse, *8-2: Special Right Triangles, *8-3: Trigonometry, *8-4: Angles of Elevation and Depression, *8-5: Law of Sines, *8-6: Law of Cosines
*9-1: Translations, *9-2: Reflections, *9-3: Rotations, *9-4: Compositions of Isometries, *9-5: Congruence Transformations, *9-6: Dilations, *9-7: Similarity Transformations
*10-1: Areas of Parallelograms and Triangles, *10-2: Areas of Trapezoids, Rhombuses,

Course Materials:

A notebook/binder
A pencil
A folder to keep homework and class worksheets

Grading Policy:

Tests (30%) & Quizzes (20%): Tests and quizzes are a way for me to check in and see if you really do understand the material

Homework (20%): Homework is an important part of class because it is designed to reinforce what we are working on in class. You will be assigned homework throughout the week, which will be due the following school day. In order to receive credit, you must show all of your work, including work that was done on the calculator. If you are absent, homework will be due when you come back.

Participation (15%): It is important that you actively engaged in your own learning, which means that you come to class on time, and prepared to work. That being said, in order to participate you must come to school, and come to class. If you are regularly absent, that will have a negative effect on your grade. Every day you are in class, I will give you a grade between 5 (you were perfect in class) and 0. At the end of each week, your classwork grade is averaged

Other Expectations:

If you are absent, you are responsible to getting the information that you missed. Upon return, get the handouts you missed from the organizer, and copy notes from a peer instead of doing the Do Now.