

# P.S. 035 Manhattan High School Course Syllabus

Course Code: MGF21-02

Course Name: GEOMETRY 1/2

Teacher Name: WATKINS

Year and Term: SUMMER 2020

## **Learning Standards and Course Objectives:**

At the end of this six week course students will be able to:

- Use prerequisite math skills to solve and strategize for various mathematical concepts.
- Construct viable arguments and critique reasoning
- Model with mathematics
- Use appropriate tools strategically
- Make sense of problems and persevere in solving them ( decipher the meaning of a problem and look for entry points to its solution.)

**Course Description:** This course builds on the Algebra 1 skills with application of geometric principles to the physical world. The topics are fully aligned to Common Core and include coordinate geometry, plane geometry, along with an emphasis on inductive and numerical reasoning. Geometry involves the study of points, lines, planes and other geometric figures as they relate to our physical world. Students will learn to measure geometric figures and their areas and volumes; develop their logic and inductive and deductive reasoning skills. The relationship between figures and properties that make figures unique will be developed and applied to real world situations. The use of mathematical skills and formulas will be employed and emphasized throughout this course.

## **Course Outline:**

**Week 1: Foundations in Geometry (review)**

**Week 2: Geometric Reasoning**

**Week 3: Identifying terms and concepts and calculating measurement (application of process and deductive reasoning)**

**Week 4: Using formulas to solve problems**

**Week 5: Assessment and Review**

**Week 6: Culminating project/assignment**

**Grading Policy:** Students will earn a “P/CR” by earning a minimum of 400 points based on assignments that are worth 50-120 points.

**Other Expectations:** Students will participate in weekly Google Meets and submit assignments in a timely manner.