Harlem Middle School
8th Grade Geometry Team 8-1
Mrs. Tanascu

COURSE SYLLABUS

COURSE DESCRIPTION: This course emphasizes the development of skills, techniques, and applications that deal with the structure of Geometry, angles, parallel lines, perpendicular lines, transformations, congruence, similarity, polygons, circles, surface area, and volume.

LEARNING OBJECTIVES: The Illinois Common Core Standards will be utilized

LEARNING EXPERIENCES
> In this course the students will:
> a. Listen, take notes and actively participate in class discussions
> b. Write explanations for solutions to various problems
> c. Participate actively in small group activities
> d. Design and complete projects

COURSE MATERIALS: Pencils
Loose leaf paper
Graph Paper
1 1/2" Binder
4 Dry Erase Markers
Notebook (Most students will need several notebooks throughout the year)
Textbook

COURSE OVERVIEW

COURSE FORMAT
The format of this course is lecture, discussion, and cooperative groups. You will be expected to participate in individual and group projects.

COURSE SUCCESS
> In order to be successful in this course, students are expected to:
> - contribute daily in the classroom to the learning of math in a positive manner;
> - do practice for this course at home
> - participate as a group member in all cooperative group settings including projects and class activities
> - take notes daily, use your notes to study for assessments
> - complete all assignments on time and neatly
> - Seek additional help from the teacher when needed

ATTENDANCE
Regular and punctual attendance is required, as absences and tardiness have a detrimental effect on student achievement. School policy regarding attendance and tardiness will be enforced.

Exams, tests and quizzes missed because of an excused absence must be made up on the day of your return to school. Practice and projects due on the day of an absence must be handed in the day you return. Practice assigned on the day of your excused absence is due within two days after your return, in addition to the regular practice. If a student misses the class before an exam, test, or quiz, the student will take the assessment with the class.

CLASS BEHAVIOR

The rights of others will be respected at all times. Courtesy should be demonstrated towards both fellow classmates and the teacher. Students are to work only on math assignments while in the classroom. Students found working on another class' assignment will have the item confiscated and a parental conference scheduled. Disruptive or inappropriately attired students will have parents contacted and/or be sent to the main office. School rules as explained in the student handbook apply in this class.

GENERAL RULES

Be Respectful, Be Responsible, Be an Active Learner are the core guidelines for classroom behavior. The Harlem Middle School Creed is an integral part of classroom expectations.

MAJOR TOPICS TO BE EXPLORED

Structure of Geometry: Exploration of basic figures in the plane, postulates, theorems and definitions. Basic formal and informal proofs.

Angles, Parallel, and Perpendicular Lines: Identify the relationship between angles and lines. Determine distance between points. Determine the midpoint of a line segment. Prove lines parallel and perpendicular using angle relationships. Prove angles are congruent.

Congruence and Similarity: Prove triangles are congruent and similar. Determine corresponding parts of congruent figures.

Transformations: Identify, draw, and apply the properties of reflections, rotation, and translations.

Polygons: Classify polygons. Apply and prove properties of polygons to determine unknown information about: triangles(Apply properties of medians, altitudes, bisectors and right triangle trigonometry), quadrilaterals, n-gons, irregular shapes, and composite figures.

Circles: Use properties of circles, angles, arcs, chords, secants, tangents, and radii to determine missing measures.

Surface Area and Volume: Determine lateral surface area, total surface area, and volume for 3-D shapes and composite figures.

Additional topics will be covered time permitting

ASSESSMENT

This is a standards based course. Student's grades are separated into two overall categories: Achievement and Process Skills.

Achievement scores are based on each student's demonstrated knowledge on assessments. Each reporting category has a delineated scale indicating the associated skills.

Process Skills are scored on the school process rubric and include all assignment types not listed above.

At Home Practice/Homework: Parents may check the team website nightly for any assignments that might be due. Skyward is updated regularly for student and parent access.

Please refer to the school handbook regarding the retake policy. Students are encouraged to retake assessments when the option is available.

CONTACTING THE INSTRUCTOR

Parents with questions are encouraged to call the instructor at 1-815-654-4510. Please leave your name, your child's name, and a daytime number where you can be reached. Parents may email the teacher at amy.tanascu@harlem122.org. Students may schedule an appointment to see the teacher for extra help either before or after school.

Students should retain the syllabus for the entire school year and refer to them as needed.