Reseda High School
Police Academy Magnet
Geometry A/B

Instructor: Mr. Flores

Course Description:
In Geometry A/B students will learn about properties of many basic shapes in two and three dimensions, as well as how to apply these properties to the world around them. Students will develop logical thought processes with emphasis on reasoning and logical arguments leading to geometric proofs while integrating law enforcement themes.

Fall 2013
Topics of Instruction:

Unit 1: Basic Skills Review
CA Content Standards: 1.0, 3.0, 4.0, 16.0

Algebra Review (Solving Equations, Radicals)
Basic shapes and Areas
Points, Lines, and Planes
Segments, Rays, Parallel Lines and Planes
Measuring segments and angles (Measure with ruler and protractor)
Basic Constructions
Constructing Parallel and Perpendicular Lines
Patterns and Inductive Reasoning
Unit Project(s)
Unit Test

Unit 2: Inductive and Deductive Reasoning
CA Content Standards: 1.0, 2.0, 3.0, 4.0,

Conditional Statement
Bi-conditionals and Definitions
Reasoning in Algebra
Proving Angles Congruent
Unit Project(s)
Unit Test

Unit 3: Parallel and Perpendicular Lines
CA Content Standards: 2.0, 4.0, 7.0, 12.0, 13.0, 17.0

Properties of Parallel Lines
Proving Lines Parallel
Parallel and Perpendicular Lines
Parallel lines and the Triangle Sum Theorem
The polygon Angle Sum Theorem
The Coordinate Plane
Lines in the Coordinate Plane
Slopes of Parallel and Perpendicular Lines
Unit Project(s)
Unit Test

Midterm 1 (District Assessment)

Unit 4: Triangle Congruence
CA Content Standards: 2.0, 4.0, 5.0, 12.0

Congruence Figures
Triangle Congruence by SSS and SAS
Triangle Congruence by ASA and AAS
Using CPCTC
Isosceles and Equilateral Triangles
Congruence in Right Triangles
Using CPCTC
Unit Project(s)
Unit Test

Unit 5: Properties and Attributes of Triangles
CA Content Standards: 2.0, 4.0, 5.0, 6.0, 17.0, 21.0

MidSegments of a Triangle
Bisector in Triangles
Concurrent Lines, Medians and Altitudes
Inequalities in Triangles
Project(s)
Unit Test

Unit 6: Similarity
CA Content Standards: 2.0, 4.0, 5.0, 7.0

Rations and Proportions
Similar Polygons
Proving Triangles Similar
Similarity in Right Triangles
Proportions in Triangles
Project(s)
Unit Test

Unit 7: Polygons and Quadrilaterals
CA Content Standards: 7.0, 12.0, 13.0, 15.0, 17.0

Classifying in Quadrilaterals
Properties of Parallelograms
Proving that a Quadrilateral is a parallelogram
Special Parallelograms
Trapezoid and Kites
Placing Figures o the Coordinate Plane
Proofs Using Coordinate Geometry
Project(s)
Unit Test

Midterm 2 (District Assessment)

Final Review
Final Exam

Spring 2014
Topics of Instruction:

Unit 8: Right Triangles and Trigonometry
CA Content Standards: 8.0, 15.0, 18.0, 19.0, 20.0

Special Right Triangles
The Tangent Ratio
Sine and Cosine Ratio
Angles of Elevations and Depression

Trigonometry and Area
Project(s)
Unit Test

Unit 9: Perimeter and Areas
CA Content Standards: 7.0, 8.0, 10.0, 11.0, 20.0

Area of Parallelograms and Triangles
Area of Trapezoids, Rhombi and Kites
Area of Regular Polygons
Perimeters and Areas of Similar Figures
Circles and Arcs
Areas of Circles and Sectors
Project(s)
Unit Test

Unit 10: Surface Area and Volume
CA Content Standards: 8.0, 9.0, 11.0

Surface Area of Prisms and Cylinders
Surface Area of Pyramids and Cones
Volume of Prisms and Cylinders
Volume of Pyramids and Cones
Surface Area and Volume of Spheres
Area and Volume of Similar Solid
Project(s)
Unit Test

Unit 11: Transformation
CA Content Standards: 22.0

Translations
Reflections
Rotations

Unit 12: Circles
CA Content Standards: 2.0, 7.0, 17.0, 21.0

Tangent Lines
Chords and Arcs
Inscribed Angles
Angle Measures and Segment Length
Circles in the Coordinate Plane
Project(s)
Unit Test

Midterm 3 (District Assessment)

Unit 13: Extending Transformational Geometry
CA Content Standards: 22.0

Symmetry
Dilations
Composition of Reflections
Project(s)
Unit Test

Final Review
Final Exam

Grading
Each assignment will be graded on a point basis which will be converted to percentages, which will then be converted into letter grades. If a student doesn't turn-in the assignment, they will be given a zero. No late or make-up work will be given for unexcused absences. A = 90-100%, B = 80-89%, C = 70-79%, D = 60-69%, F = 59% and below

20% Classwork/Homework
10% Quiz
55% Test
5% Dress Code
10% Projects

Important: I'm using the JupiterGrades website to post grades and homework for my students. You can login anytime to check your child's current grades, homework, missing assignments, test scores, and report cards. It's completely secure, so no one else can see your personal information.

Attendance, Cooperation and Work Habits
1. Respect
A. Each other (e.g. avoid inappropriate language, talking when teacher or others are speaking)
B. Environment (e.g. computer lab-no food or drinks)
2. Follow school and Police Academy rules/policy at all times
A. You must be on time to class and ready to learn (3 warnings, parent contact, detention, etc)
B. Bathroom passes 3 times each semester (only at appropriate times)
C. Please don't bring electronics to class

Note: Challenge yourself

- Question the quality of your own work.
- Ask yourself how can you improve the assignment.
- Ask for help from the teacher or other classmates if you need it.

Assignment Types

*Presentations *Projects *Quizzes *Exams *Homework *Classwork

Homework/Classwork Policy

Assignments are assigned on regular basis. All student work must be of the individual student. CHEATING of any type will not be tolerated.

Reseda High School ESLRS

Effective Communicators
Critical Thinkers
Self-Directed Learners
Responsible Citizens
Healthy Individuals.

Please feel free to contact me by email at mlf0993@lausd.net or call 818-758-3600 and I will return your message as soon as possible and we can discuss your child's progress.[1]

Teacher reserves the right to make necessary changes to the syllabus at any time.

I have read and discussed this syllabus with my student, and understand the grading polices and procedures. My student and I understand what is required on a daily basis. My student and I understand the importance of attending class on time. My student and I also understand what is expected when a class period is missed.

Student Name:_____

Student
Signature:_____

Parent Name: _____

Parent Signature:_____

Date:_____ Home Phone:_____

Daytime contact (home or cell and number):_____

Evening contact (home or cell and number):_____

Email address: _____

Please print out a copy of **this page only**, and return only this completed page to Mr. Flores.