



**Reseda High School
Law and Public Service 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 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

Ratios 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 on 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.