

# Welcome to Plane Geometry

Vision Charter School

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## Course Purpose

To instill students with a strong geometry foundation to be used in future advanced math courses.

## Brief Year Outline

### Introduction to Plane Geometry

- Angles Construction
- Parallel, Perpendicular, Transversal
- Algebra Properties
- Transformation

### Logic and Proofs

- Logic Statements
- Corresponding and Congruency
- Proofs

### Properties of Triangles

- Side & Angle
- Scalene, Isosceles, Equilateral
- Segments

### Special Triangles

- Right Triangles
- Pythagorean Theorem

- Trigonometry (SOH-CAH-TOA)
- ### Polygons
- Identifying Polygons
  - Quadrilaterals
  - Exterior and Interior Angles

### Circles

- Circle Pairs
- Angles

### Perimeter of Plane Figures

### Area of Plane Figures

### Surface Area

- Polyhedrons
- Cylinders, Cones, Spheres

### Volume

- Straight and Pointed Solids
- Spheres

## Student Expectations

### RESPONSIBILITY

- **Be on time, be prepared and be ready to learn.**
- **Be responsible for yourself, your materials, and your actions.**
- **Follow all classroom procedures and ask questions if you don't understand.**

### RESPECT

- **Respect yourself, respect others, respect the school and school property.**
- **Listen to others and they will listen to you.**
- **Be kind with your words and your actions.**

### HONESTY

- Build relationships founded on trust, with your teachers and fellow classmates.
- Be honest with everyone especially yourself.

### CARING

- Love everyone (enemies too!)
- Contribute to the learning environment by expressing a caring attitude to everyone.

- Work together to solve problems, because everyone has an important role to play.

### **Rewards**

- Students, who follow classroom expectations, are referral free and maintain a 2.0 average in each core class will be invited to attend a school social at the conclusion of each quarter.
- Students caught exhibiting “Golden Eagle” behavior will earn special recognition.
- Students working to their highest potential will learn the importance and value of education.

### **Consequences**

- Students will make-up misuse of time during recess periods or after school. This includes time wasted by talking or doing anything other than the assigned activity.
- Repeated negative behavior or severe classroom disruption will result in an office referral.

### **Mandatory Supplies**

1. Pencils- Students should have more than one pencil and it is strongly recommended that they sharpen their pencils before class begins to reduce class disruptions. Also, no homework will be accepted in pen.
2. Notebook supplies per SOAR.
3. Scientific Calculator (Optional: Graphing Calculator)
4. Items from general supply list
5. Compass and protractor.

### **Assessment Criteria for Each Semester Grading Period**

Four general areas are considered when evaluating the student’s progress.

1. Class Work and Class Participation- this includes completeness and neatness of the SOAR binder (math section only).
2. Homework-Students are expected to complete homework on time. Late homework assignments will not be accepted for credit. Students with excused absences will be given two extra class day for each consecutive class missed. It is the student’s responsibility to acquire all absent homework. Students with unexcused absences or absences due to field trips or other extra-curricular activities must turn in all assigned work before leaving and will be responsible for that day’s assignments.
3. Assessments- will be given each chapter.
4. Semester Exam -A comprehensive exam will be given at the end of each semester. There will be no test corrections for the Semester Exam.

### **Point Distribution**

In Class Assignments and Participation	10%
Assignments	20%

Tests	30%
Quizzes	15%
Semester Exam	25%

**Teacher Assistance**

Assistance will be made available by appointment. Reviews will be offered prior to any chapter tests and before semester exams.

**Grade Scale**

4.0 Scale (all percentages are rounded to the nearest percent)

Percentage	Letter Grade	Scale Value
100-98	<b>A+</b>	4.0
97-94	<b>A</b>	4.0
93-90	<b>A-</b>	3.67
89-87	<b>B+</b>	3.33
86-84	<b>B</b>	3.0
83-80	<b>B-</b>	2.67
79-77	<b>C+</b>	2.33
76-74	<b>C</b>	2.0
73-70	<b>C-</b>	1.67
69-67	<b>D+</b>	1.33
67-60	<b>D</b>	1.0
59-0	<b>F</b>	0.0

Please note that semester exams are worth 25% of the student's final grade and can significantly impact his or her grade.

If a change or modification to the syllabus arises an update syllabus will be made available.

Plane Geometry

I, \_\_\_\_\_ have read this document and understand the expectations and policies of the class.

I, \_\_\_\_\_ parent/guardian of the aforementioned student have read this document and will keep in contact with Mr. McDougall should questions or concerns arise.

The best way to contact parent/guardian:

Email: \_\_\_\_\_

Phone: \_\_\_\_\_

The best time to contact parent/guardian: \_\_\_\_\_