**COURSE EXPECTATIONS**

Class: Geometry – 4830 Teacher: Ms. Tejada

Palo Verde High School Room: 817

**Course Scope**

This one-year course provides students with a rigorous study of Euclidean geometry. It incorporates problem solving, reasoning, modeling, and effective communication in the study of transformational geometry, trigonometry, measurement, and probability. Instructional practices incorporate integration of diversity awareness including appreciation of all cultures and their important contributions to society. The use of mathematical tools and technology, including calculators and computer software, is an integral part of this course. This course fulfills one of the mathematics credits required for high school graduation.

**Prerequisites**

1. 9th Grade Standing
2. Completion of Algebra I or concurrent enrollment

**Course Goals**

1. To develop the Standards for Mathematical Practice. [NVACS]
2. To experiment with transformations in the plane, understand congruence in terms of rigid motions; prove geometric theorems, and make geometric constructions. [NVACS: G.CO]
3. To understand similarity in terms of similarity transformations, prove theorems involving similarity; and define trigonometric ratios and solve problems involving right triangles. [NVACS: G.SRT]
4. To understand and apply theorems about circles; and find arc lengths and areas of sectors of circles. [NVACS: G.C]
5. To translate between the geometric description and the equation for a conic section; and use coordinates to prove simple geometric theorems algebraically.

 [NVACS: G.GPE]

1. To explain volume formulas and use them to solve problems; and visualize relationships between two-dimensional and three-dimensional objects.

 [NVACS: G.GMD]

1. To apply geometric concepts in modeling situations. [NVACS: G.MG]
2. To understand independence and conditional probability and use them to interpret data; and use the rules of probability to compute probabilities of compound events in a uniform probability model. [NVACS: S.CP]
3. To use probability to evaluate outcomes of decisions. [NVACS: S.MD]

**Units of Study**

|  |  |
| --- | --- |
| **Semester 1** | **Semester 2** |
| * Basic Vocabulary and Constructions
* Transformations in the Plane
* Congruence
* Triangles and Quadrilaterals
* Similarity
* Right Triangles and Trigonometry
 | * Right Triangles and Trigonometry
* Circular Measurement, Area & Volume
* Measurement, Area, & Volume Part II
* Circles
* Coordinate Geometry
* Probability
 |

**Possible Careers**

The following is a list of a few careers that use Geometry concepts:

|  |  |  |  |
| --- | --- | --- | --- |
| Airplane Mechanic | Auto Mechanic | Carpenter | Construction Supplies |
| Marketing Representative | Medical Lab Technician | Waste Water Treatment | Home Theatre & Alarm Installation |
| Dietician | Drafter | Farm Advisor | Hydrologist |
| Industrial Engineer | Civil Engineer | Interior Decorator | Landscape Architect |
| Machinist | Clerk | Meteorologist | Nurse |
| Pharmacist | Photographer | Plumber | Printer |
| Technical Researcher | Real Estate Agent | Operator | Contractor  |

**Required Student Supplies:**

* 2 Notebooks: One will be used for notes and the other will be for classwork/homework
* Calculator
* Pencils

**Recommended Students Supplies:**

* Scientific or Graphing Calculator (TI-83 or TI-84) - This is a great tool for your student to have. It will not only help them in Geometry, but in all of their high school and college mathematics courses. They are also allowed on the ACT, SAT, and there is a calculator portion on the semester exam for this course. [Highly Recommended] Calculators will NOT be loaned out from the teacher during tests.

**Student Resources**

Textbook - Each student will be checked out a copy of Geometry (McDougal Littell).

Care of the Text - The student will be responsible for the care of this book for the entire school year (this includes keeping a cover on the book). If the book is lost or stolen, the replacement will cost $60.84\*. The student will not be issued another book until the lost book has been paid for. The student will pay a portion of the total cost if the book needs repair. \*Cost is subject to change.

**Course Information**

Assessments - Tests will be given at the end of every unit, and quizzes will be given periodically throughout each unit. If a student misses an assessment due to absence, it is the **STUDENT’S RESPONSIBILITY** to make up the assessment. Assessments must be made up after school within **one week** of the original test date. If a student is caught cheating on an assessment, the student will receive a zero and will not be allowed to re-take the assessment. Additional disciplinary actions may be taken if a student is caught cheating. If a student is caught talking or with a cell phone during an assessment, the student will earn a zero and will not be allowed to re-take the assessment.

Assignments - Assignments will be given daily. Students are expected to complete any unfinished assignment as homework. Assignments will be due at the beginning of the next class period. Late work will be given a maximum 50% credit. If a student misses an assignment due to absence, it is the **STUDENT’S RESPONSIBILITY** to make up the assignment. All assignments will be posted on the assignment list located on the bulletin board.

Notebooks - Each student is required to keep an organized notebook which will be checked throughout the year. If a student misses notes due to absence, it is the **STUDENT’S RESPONSIBILITY** to make up the notes. Notes will be posted on my website at the end of each day. Students can copy the notes or print them out and insert in their binders on the appropriate pages. It is important to make sure your table of contents and notes are kept current. Notebook checks will be given at least once per quarter.

Make-Up - Each **STUDENT IS RESPONSIBLE** for getting his/her make-up work when absent. The assignment list is posted in the classroom and kept up-to-date. Three (3) school days will be given for each day a student is absent to make up missing work. Make-up work **NOT** completed within this time frame will be considered late.

Late Work

Any student who fails to turn in an assignment on the date it is due, may turn in the completed assignment within three school days of the date it was due. Any assignment that is turned in late will have a maximum value of 50% of earned points.

**Criteria for Credit**

1. All work must be completed in pencil. I will not accept work that has been completed in pen, especially on assessments.
2. All work must be shown for every problem. NO WORK = NO CREDIT
3. Each assignment needs to be labeled with the student’s full name, period number, and date in the upper, right-hand corner.

**Across the Curriculum Activities**

Preparation Skills Program - Each student will receive and be instructed on the use of a Math Mate reference guide. All students are required to have a notebook and pencil on their desks each day when class begins.

Writing - Students will put into practice writing techniques which they have developed in their English classes. The teacher will include writing assignments and essay questions on exams, which will be part of the exam grade.

Reading/Learning Strategies - Two-column notes will be used extensively.

Technology -

 Calculator - Students will use the calculator as a problem-solving tool.

 Equipment Usage - All students will adhere to the standard “Use of Equipment Rules”

**Classroom Rules and Procedures**

* NO food or drink allowed in class, including gum. Bottled water is allowed.
* The use of electronic items in class is prohibited. Parents will have to pick up confiscated electronic items up from the Dean’s Office at the end of the day.
* Obey all school rules.
* Be respectful of other people and property.
* Be prepared for class every day.
* Be on time to class every day.
* Bullying of any kind will not be tolerated in my classroom.

Disciplinary Consequences

Consequences for inappropriate behavior are as follows, using progressive discipline measures:

1. Warning

2. Conference with student

3. Parent Contact

4. Counselor Referral

5. Dean Referral

\*Detentions may be assigned at any step after the 1st incident.\*

\* The teacher reserves the right to skip any step depending on the severity of the infraction.\*

Tardy Policy

The Palo Verde tardy policy is defined in the student handbook and will be followed in this classroom. When the bell rings, students will be inside the classroom or will be marked tardy. The Palo Verde tardy form outlines a variety of consequences including warning, parent notification, loss of QCC points, counselor referral, dean referral, and required parent conference. Students will receive an “S” in citizenship on the 2nd tardy and will receive a “U” in citizenship on the 6th tardy.

**Evaluation**

|  |  |
| --- | --- |
| Quarter Grades | Semester Grades |
| Assessments 70% Class Work 30% | Quarter 1/Quarter 3 40% Quarter 2 / Quarter 4 40%Semester Exam 20% |

Assessments include tests, quizzes, notebook quizzes, warm ups, warm up quizzes and projects. Class Work includes homework, participation, and any work completed in class.

Explanation of Student Grades -

 A 90% - 100% Excellent

 B 80% - 89% Above Average

 C 70% - 79% Average

 D 60% - 69% Below Average

 F Below 60% Failing

 IN Incomplete

 NG No Grade

Receiving Grades Reports -

* Grades will be updated on Infinite Campus on a weekly basis.
* Progress reports will be issued at every mid-quarter. These progress reports will serve as notice of unsatisfactory progress for those students earning a grade of D of F.

(See student handbook for dates.)

* Report cards will be issued approximately two weeks after the end of each quarter.

(See student handbook for dates.)

Citizenship Grades -

Good citizenship is expected of all students. A good citizen assumes responsibility for personal success, but also contributes positively toward the success of the group.

O (Outstanding) The student’s attitudes and actions have a noticeable positive effect upon the

 class.

S (Satisfactory) The student’s attitudes and actions display an acceptance of personal responsibility. The student does not have a negative effect upon the class.

N (Needs Improvement) The student’s attitudes and actions need to improve for the student to be a

successful member of the class.

U (Unsatisfactory) The student’s attitudes and actions have an observable, negative effect upon the class. The student does not strive toward personal success in class.

Thus, the citizenship grade is a subjective evaluation of the student’s initiative, dependability, leadership, punctuality, cooperation, and ability to work with others.

**Assignment Disclaimer**

Any assignments, projects, or student work submitted to a teacher/staff member becomes the property of the Clark County School District. The teacher/staff member receiving the assignment(s) may make the determination of what becomes of the submitted assignment(s). Students will be afforded an opportunity to request the return of assignments which will be returned to the student within a time period to be determined by the teacher/staff member.

**Extra Help**

If a student needs extra help, I will be available in my classroom, Room 824, before and after school. There may be some changes in the times due to meetings, parent conferences, and other assigned teacher duties. Students are encouraged to inform me if they know they are coming in for help, so I can let them know if any scheduling conflicts exist.

**Contact Information**

If you need to contact me, please e-mail me at bltejada@interact.ccsd.net.

**Class Website**

pvhstejada.weebly.com

\*\*Policies and Procedures are subject to change.\*\*