

# Gwynn Park High School

**Course Title:** Trigonometry

**Teacher:** Dr. V. Ogunba

**Contact Information:** 301-372-0140  
[www.pgcps.org/~gphs/faculty\\_staff.html](http://www.pgcps.org/~gphs/faculty_staff.html)

I. Course Description

Trigonometry Analysis includes the introduction to the six trigonometric functions, working with trigonometric functions to solve problems involving right and non-right triangles, and exploring algebraic and geometric interpretations of the graphs of the trigonometric functions. Also covered are topics from Analytic Geometry which include a review of graphing linear functions followed by an introduction to the equations and graphs of the conic sections: circle, parabola, ellipse and hyperbola.

II. Instructional Philosophy

- Each student is expected to attend class every day, arrive prepared with the required materials, participate in class activities, review materials introduced and complete all problems when assigned for classwork or homework.
- The students will be assessed using a variety of question types.
- Teachers will deliver quality instruction of content that enhances students' ability to learn challenging, complex, higher order thinking skills specifically in regard to the Algebra High School Assessment, the PSAT and the SAT.
- Instruction will be delivered with consideration to various learning styles

III. Prerequisite

- Successful completion of Algebra 2

IV. Grading Factors

*Grading factors will be adjusted according to all individualized 504 plans, IEP's, etc.*

Assessments / Projects ( <i>One or more of the following</i> ).....	45%
Tests	
Quizzes	
Portfolios	
Oral Presentations	
Unit Projects	
Benchmark / Quarter Exam.....	25%
Daily Work: .....	30%
Warm-ups	
Classwork	
Homework	
Group tasks	

V.

### Pacing Guide

- Students will solve problems involving trigonometric functions and their graphs.
- Students will use numerical computation, including logarithms, for the solution of triangles.
- Students will solve problems using trigonometric identities.
- Students will solve trigonometric equations.
- Students will solve problems using complex numbers, linear functions, and quadratic functions.
- Students will recognize sequence and series patterns and limits.
- Relations vs. functions and determination of range and domain.
- Co-terminal, reference and quadrantal angles; degree and radian measure.
- Trigonometric functions for angles in standard position.
- Graph and identify graphs of all trigonometric functions; periodic behavior of trigonometric functions
- Solve inverse relations of functions
- Proving identities
- Law of sines and law of cosines
- Solving vector triangles; vector operations
- Use logarithms to solve numerical expressions
- Geometric and arithmetic sequences and series; identify the limits of a sequence

VI. Textbook  
Trigonometry (Addison-Wesley)

VII. Supplies / Materials

- 3-ring binder
- Pencils
- Loose leaf paper
- Graph Paper
- Ruler
- Calculator

VIII.

### Rules and Procedures

- ID badges should be worn around the neck always
- Food, gum and beverages are not allowed
- Take care of your personal needs between classes
- Arrive to class on time
- Be prepared with class supplies/materials daily
- Begin class work immediately
- Socialize only before and after class
- Respect all your peers
- Respond to questions when given permission
- Remain in your seat unless you are taking care of class business
- Participation in group activity
- Pay attention
- Follow directions

Attendance is an important aspect of your education at Gwynn Park High School. In accordance with Prince George's County Public Schools' Administrative Procedure 5113, *Pupil Attendance and Absence*, "five (5) days of unlawful absence per semester in a semester course, or ten (10) of unlawful absence per year in a full year course shall result in not grade ("N") for a course. Additionally, students will receive a zero (0) for all work done on the day of an unexcused absence and will not be given the opportunity to make up work missed because of an absence.

When absent, a student has two (2) days in which to bring in a note that excuses him/her for the absence. After that time, the absence becomes unexcused. The reason for the absence must be stated in the note. This note must be given to the first period teacher who will issue an attendance form (PA-1) to the student. This form will denote whether the absence is lawful (excused) or unlawful (unexcused). It is the student's responsibility to present this attendance to each of his/her teachers.

According to Prince George's County Public Schools' Administrative Procedure 5121.2, Assessment and Grading for All Secondary Programs, "students who are considered lawfully absent from school will have the opportunity to make up missed work in a timely fashion (a maximum of three (3) days for each day's absence). Students who fail to complete missed work in a timely fashion will receive "zero" grades for those assignments."

**Approved:** \_\_\_\_\_  
Carletta Marrow, Principal